

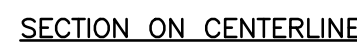
one eighth inch = one foot

VA FORM 08-6231



1 CONSTRUCTION SIGN

NTS



NOTE:
ANY SEAM IN METAL TO
BE FLAT SEAM – SEAMS
TO BE HORIZONTAL AND
OCCUR BETWEEN LINES
OF LETTERING.

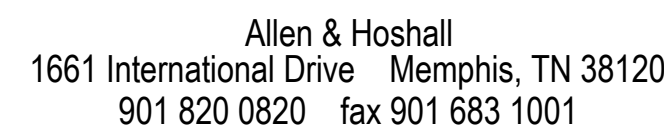


SAFETY SIGN

NTS

CONSULTANTS:

ARCHITECT/ENGINEERS:



VAPAHS PLANNING AND ENGINEERING

Date _____

Drawn

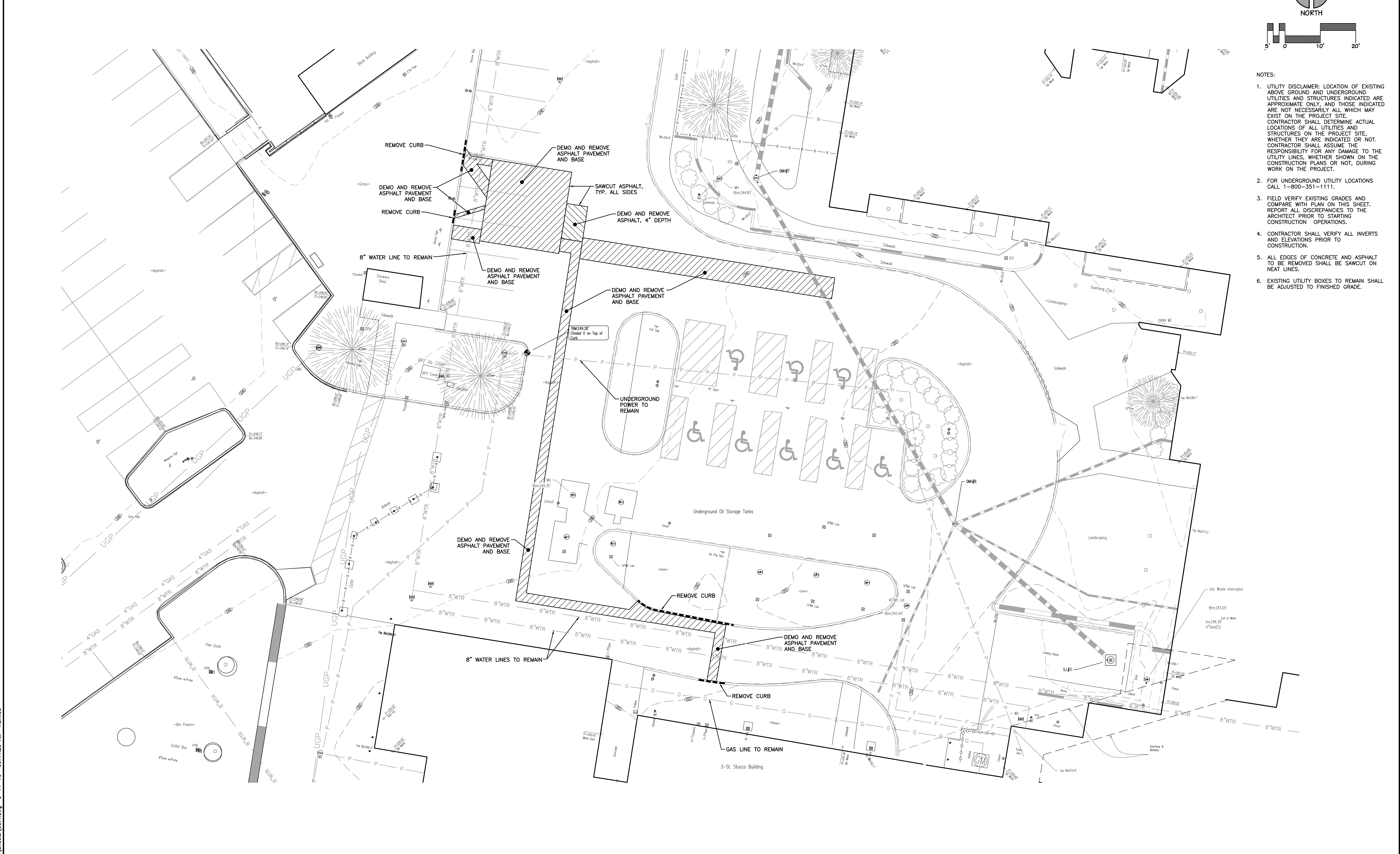
Dwg. 03 of 39

**Office of
Construction
and Facilities
Management**



Scale: 1/4"=1'-0"

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one sixteenth inch = one foot



- NOTES:
1. UTILITY DISCLAIMER: LOCATION OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES AND STRUCTURES INDICATED ARE APPROXIMATE ONLY, AND THOSE INDICATED ARE NOT NECESSARILY ALL WHICH MAY EXIST ON THE PROJECT SITE. CONTRACTOR SHALL DETERMINE ACTUAL LOCATIONS OF ALL UTILITIES AND STRUCTURES ON THE PROJECT SITE, WHETHER THEY ARE INDICATED OR NOT. CONTRACTOR SHALL ASSUME THE RESPONSIBILITY FOR ANY DAMAGE TO THE UTILITY LINES, WHETHER SHOWN ON THE CONSTRUCTION PLANS OR NOT, DURING WORK ON THE PROJECT.
 2. FOR UNDERGROUND UTILITY LOCATIONS CALL 1-800-351-1111.
 3. FIELD VERIFY EXISTING GRADES AND COMPARE WITH PLAN ON THIS SHEET. REPORT ALL DISCREPANCIES TO THE ARCHITECT PRIOR TO STARTING CONSTRUCTION OPERATIONS.
 4. CONTRACTOR SHALL VERIFY ALL INVERTS AND ELEVATIONS PRIOR TO CONSTRUCTION.
 5. ALL EDGES OF CONCRETE AND ASPHALT TO BE REMOVED SHALL BE SAWCUT ON NEAT LINES.
 6. EXISTING UTILITY BOXES TO REMAIN SHALL BE ADJUSTED TO FINISHED GRADE.

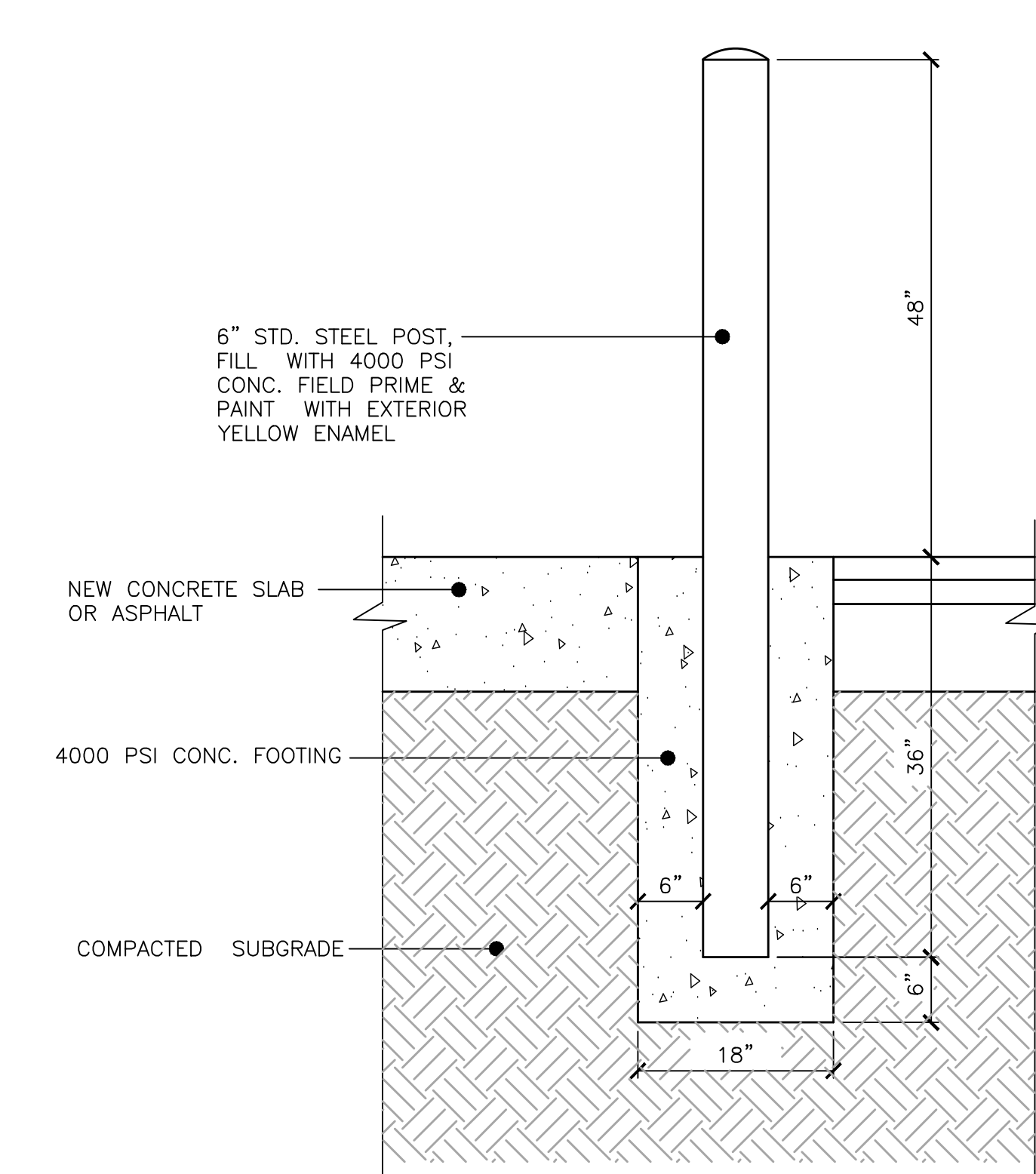
CONSULTANTS:			ARCHITECT/ENGINEERS:		Drawing Title EXISTING CONDITIONS AND DEMOLITION PLAN		Project Title MEMPHIS COMBINED HEAT AND POWER PLANT DESIGN		Project Number 614-16-114		Office of Construction and Facilities Management  Department of Veterans Affairs	
			 Allen & Hoshall 1661 International Drive Memphis, TN 38120 901 820 0820 fax 901 683 1001		Approved Project Director VAPAC8 PLANNING AND ENGINEERING		Location VAMC MEMPHIS TN		Building Number			
Revisions						Date MARCH 10, 2016		Checked RDL		Drawing Number CD100		Dwg. 4 of 39
Date								Drawn IFW				

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one sixteenth inch = one foot

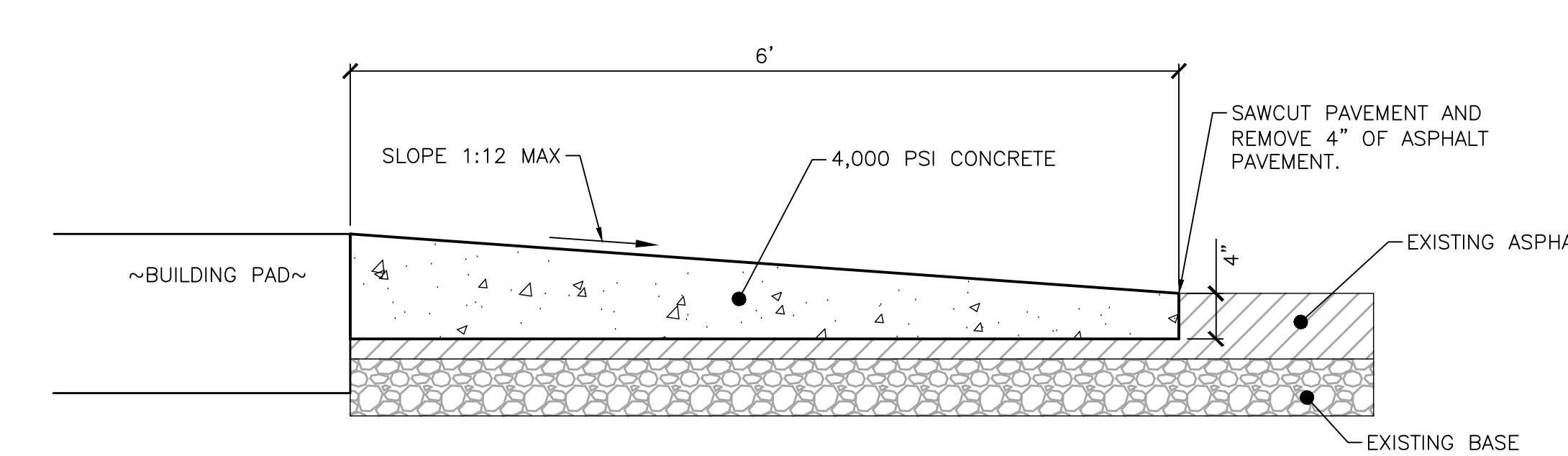


ABBREVIATIONS	
EG	EXISTING GRADE
FG	FINISHED GRADE
FFE	FINISHED FLOOR ELEV.
TH	THRESHOLD
TW	TOP OF WALL
BW	BOTTOM OF WALL
TC	TOP OF CURB
BC	BOTTOM OF CURB
RM	RIM
HP	HIGH POINT
LP	LOW POINT
TS	TOP OF STAIRS
BS	BOTTOM OF STAIRS

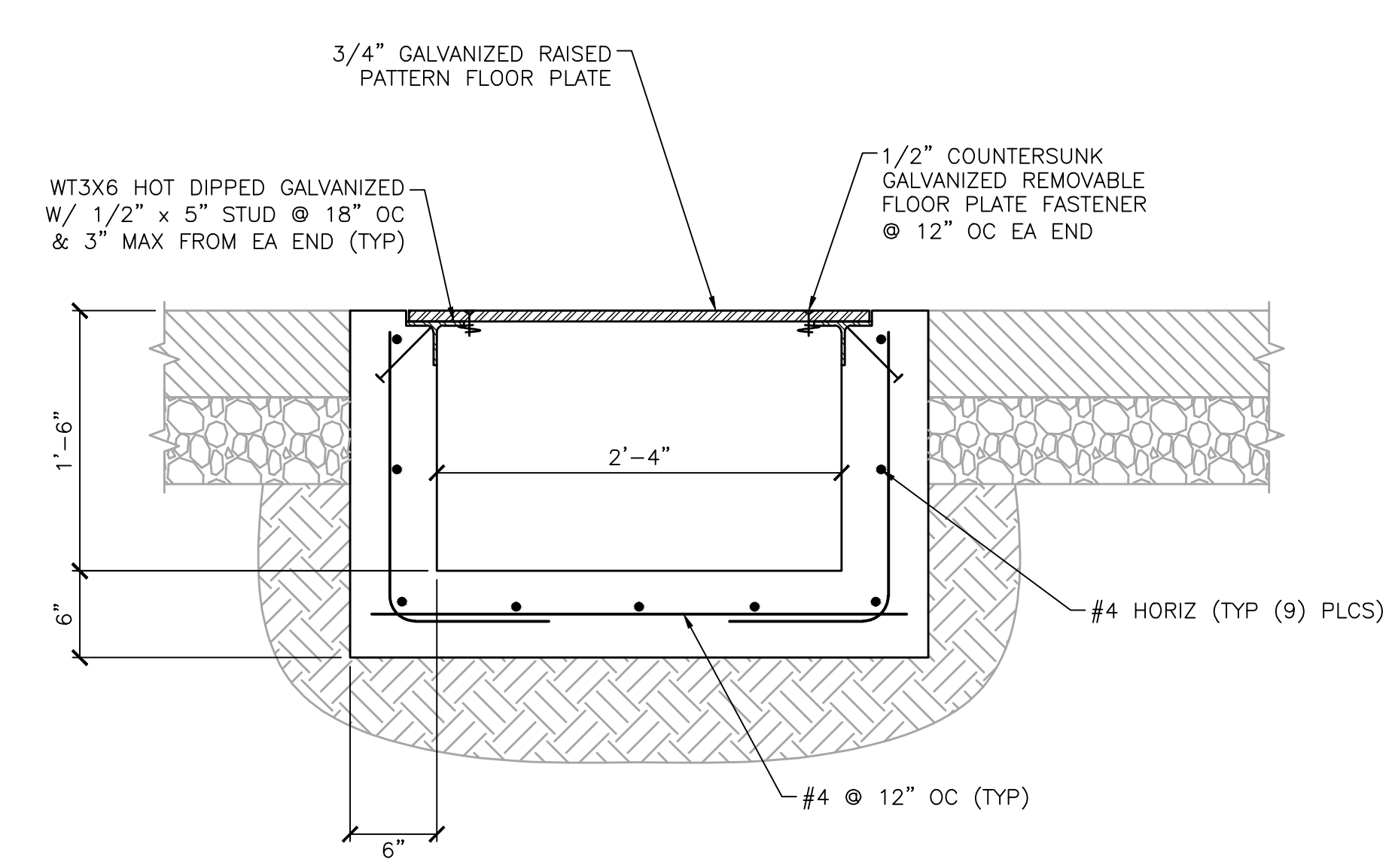
- SITE NOTES:
- COORDINATES SHOWN ARE REFERENCED TO TN STATE PLANE (NAD83).
 - REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
 - INSTALL 1/2" EXPANSION JOINT WITH SEALANT BETWEEN BUILDING AND CONCRETE SIDEWALK OR PAVEMENT. INSTALL 1/2" EXPANSION JOINT WITH SEALANT BETWEEN CONCRETE CURB AND CONCRETE SIDEWALK.
- GRADING AND DRAINAGE NOTES:
- FIELD VERIFY GRADES AND COMPARE WITH PLAN ON THIS SHEET. REPORT ALL DISCREPANCIES TO THE ARCHITECT PRIOR TO STARTING CONSTRUCTION ACTIVITIES.
 - THE RIM ELEVATIONS NOTED FOR THE DRAINAGE MANHOLES ARE TO THE TOP OF THE RIM/LID.
 - COORDINATES FOR DRAINAGE MANHOLES ARE TAKEN FROM CENTER OF STRUCTURE.
 - ALL DISTURBED AREAS SHALL BE SODDED AS SOON AS POSSIBLE TO PROVIDE STABILIZATION FOR EROSION CONTROL.



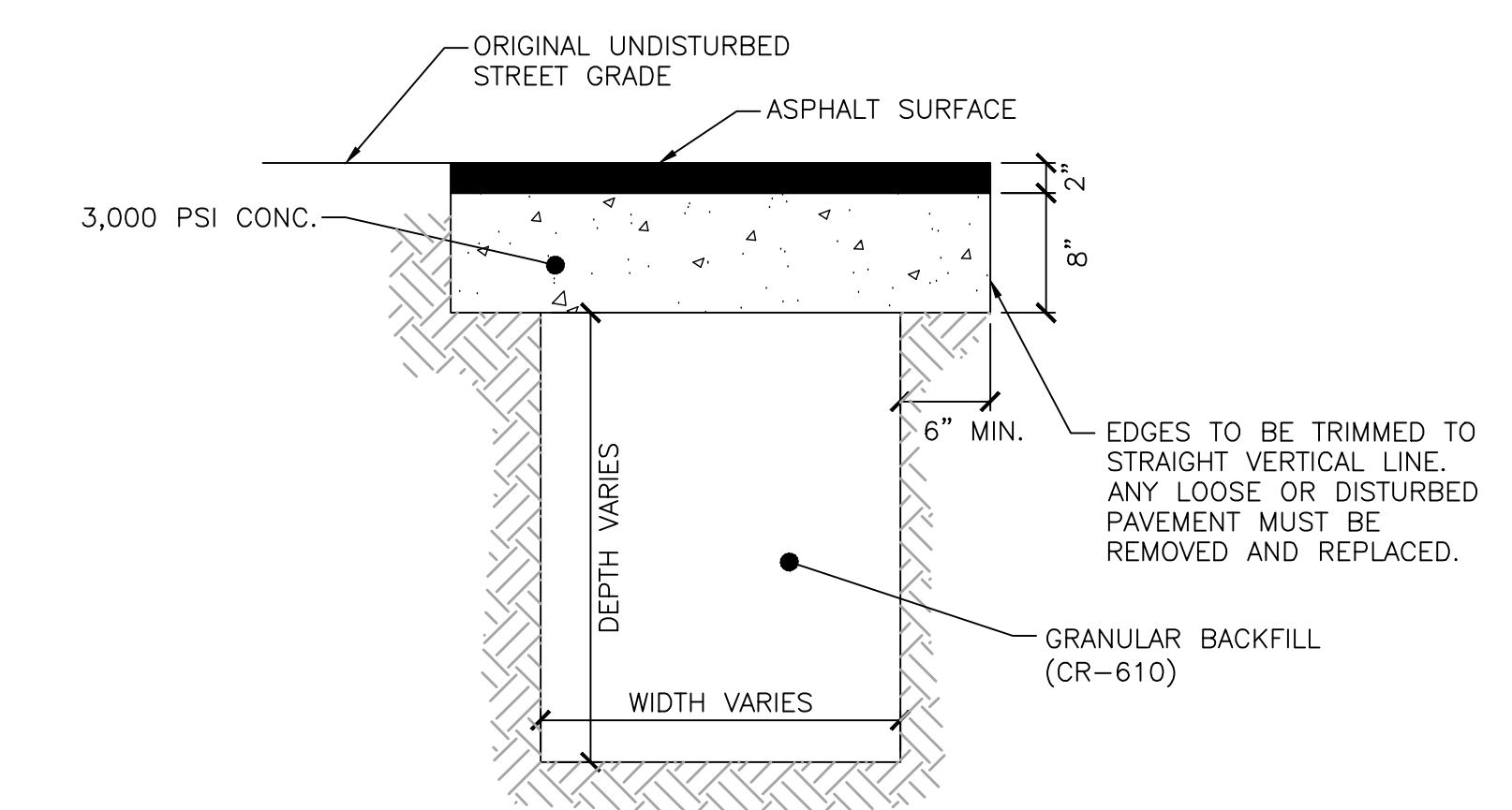
1 TYP. STEEL BOLLARD
CG100 NTS



2 CONCRETE RAMP
CG100 NTS



3 CONCRETE TRENCH
CG100 NTS



4 TYP. TRENCH REPAIR IN ASPHALT
CG100 NTS

CONSULTANTS:		ARCHITECT/ENGINEERS:		Drawing Title SITE PLAN AND GRADING		Project Title MEMPHIS COMBINED HEAT AND POWER PLANT DESIGN		Project Number 614-16-114		Office of Construction and Facilities Management Department of Veterans Affairs	
				Approved Project Director		Location VAMC MEMPHIS TN		Building Number			
				VAPACBS PLANNING AND ENGINEERING		Date MARCH 10, 2016		Checked RDL			
						Drawn IFW		Dwg. 5 of 39			
Revisions		Date									

one eighth inch = one foot
0 4 8 16
one quarter inch = one foot
0 4 8
one half inch = one foot
0 4 8
three eighths inch = one foot
0 4 8
one half inch = one foot
0 4 8
three quarters inch = one foot
0 4 8
one inch = one foot
0 6
one and one half inches = one foot
0 6
three inches = one foot
0 6

Text (Ruled)

CONSULTANTS:

ARCHITECT/ENGINEERS:

Drawing Title
FLOOR PLAN - NEW GENERATOR BUILDING

Project Title
MEMPHIS COMBINED HEAT AND POWER PLANT DESIGN

Project Number
694-10-114
Building Number
11

Office of
Construction
and Facilities
Management



Approved Project Director
VAPAHCS PLANNING AND ENGINEERING

Location
VAMC MEMPHIS TN
Date
MARCH 10, 2016
Checked
BOEVING
Drawn
SNEED

Drawing Number
11AS101
Dwg. 06 of 39

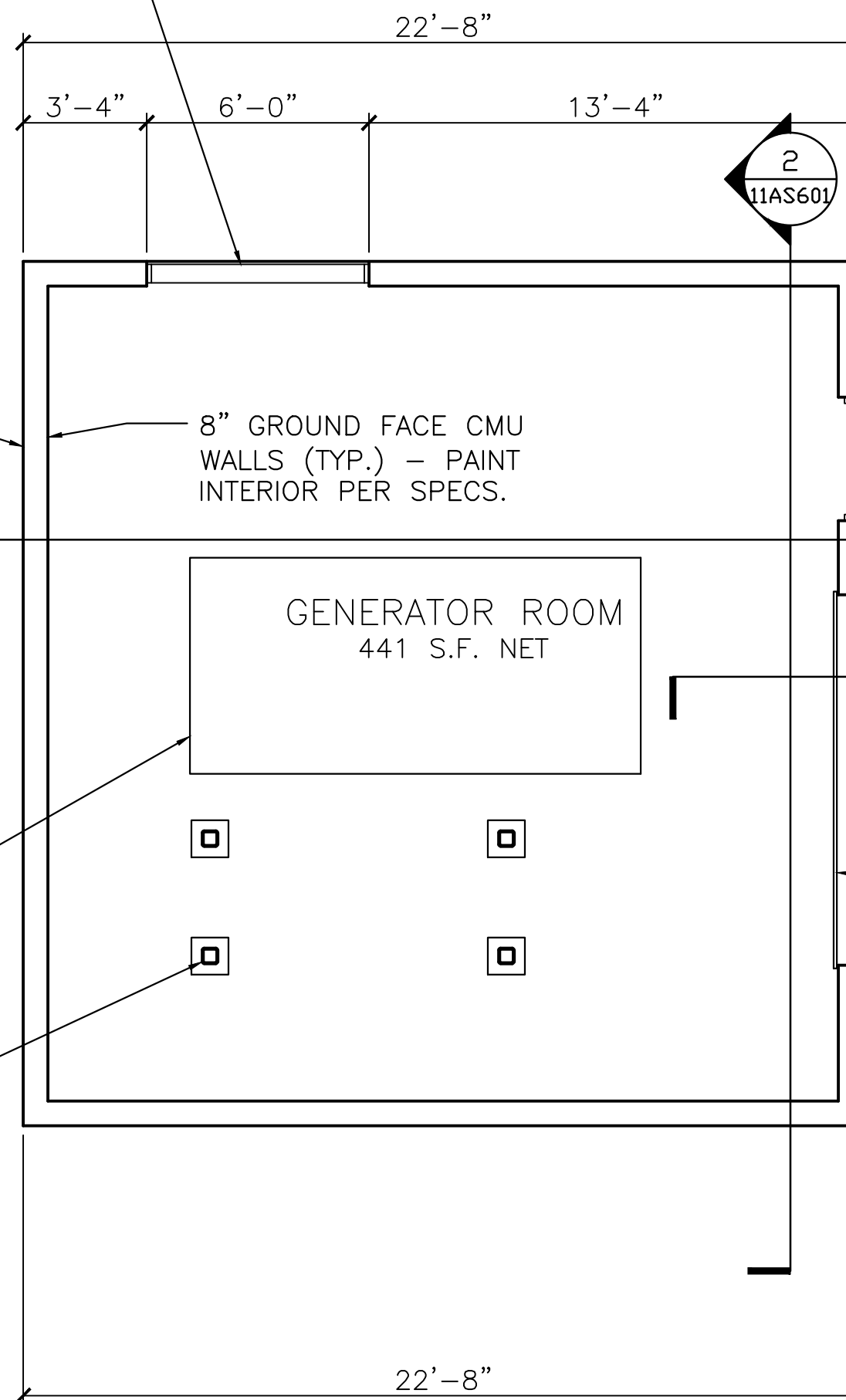
Scale: 1/4"=1'-0"

6'-0" x 8'-0" PREFIN. PAINTED EXTRUDED ALUM. FIXED BLADE LOUVER. SEE MECHANICAL DRAWINGS FOR DAMPERS AND CONTROLS. SEE SHEET 11AS601 FOR DETAILS.

8" GROUND FACE CMU WALLS (TYP.) - SEE STRUCTURAL DRAWINGS FOR REINFORCING

6" CONC. EQUIP. PAD - SEE STRUCT. DWGS.

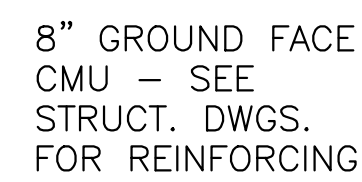
STL. TUBE COLUMNS TO SUPPORT HEAT EXCHANGER, SEE MECH. & STRUCT. DWGS.



3'-0" x 7'-0" FLUSH H.M. DOOR AND H.M. FRAME W/4" HEAD, PAINT DOOR AND JAMB ON ALL SURFACES. PROVIDE HARDWARE SET HW-SH13 (SEE SPECS.) SEE SHEET 11AS601 FOR DETAILS.

10'-0" x 12'-0" OVERHEAD COILING DOOR. PAINT DOOR AND RAILS ON ALL SURFACES. PROVIDE HARDWARE SET HW-E5 (SEE SPECS.) SEE SHEET 11AS601 FOR DETAILS.

1 FLOOR PLAN - NEW GENERATOR BUILDING
1/4" = 1'-0"



STEEL DECK (PRIMED FIN.)
- SEE STRUCT. DWGS. _____

STEEL ROOF BEAM (PRIMED
FIN.) - SEE STRUCT. DWGS. _____



Scale: 1/4"=1'-0"

[illegible]




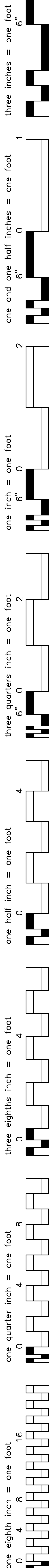
CONSULTANTS:



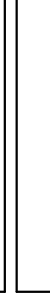
Project Title			Project Number	
MEMPHIS COMBINED HEAT AND POWER PLANT DESIGN			614-28-114	
			Building Number	
Location			Drawing Number	
VAMC MEMPHIS			TN	
			11AS601	
Date	Checked	Drawn		
MARCH 10, 2016	BOEVING	SNEED		
			Dwg. 09 of 39	

**Office of
Construction
and Facilities
Management**

 Department of
Veterans Affairs



one eighth inch = one foot





ALLEN & HOSHALL

Celebrating 100 Years

 Allen & Hoshall

 1 International Drive Memphis, TN 38120

 901 820 0820 fax 901 683 1001



	WAL NEW
	Approved
	VAPA

[illegible]


ALLEN & HOSHALL
Celebrating 100 Years
Allen & Hoshall
1661 International Drive Memphis, TN 38120
901 820 0820 fax 901 683 1001

Project Title MEMPHIS COMBINED HEAT AND POWER PLANT DESIGN			Project Number 694-16-114	
			Building Number	
Location VAMC MEMPHIS			TN	
Date MARCH 10, 2016	Checked BOEVING	Drawn SNEED		
			Drawing Number 11AS701	
			Dwg. 10 of 39	

 Department of
Veterans Affairs

INSPECTION TASKS PRIOR TO WELDING	APPLICABLE TO THIS PROJECT	QC	QA
WELDING PROCEDURE SPECIFICATIONS (WPSS) AVAILABLE	Y	P	P
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	Y	P	P
MATERIAL IDENTIFICATION (TYPE/GRADE)	Y	O	O
WELDER IDENTIFICATION SYSTEM ¹	Y	O	O
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)			
• JOINT PREPARATION			
• DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	Y	O	O
• CLEANLINESS (CONDITION OF STEEL SURFACES)			
• TACKLING (TACK WELD QUALITY AND LOCATION)			
• BACKING TYPE AND FIT (IF APPLICABLE)			
CONFIGURATION AND FINISH OF ACCESS HOLES	Y	O	O
FIT-UP OF FILLET WELDS			
• DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	Y	O	O
CHECK WELDING EQUIPMENT	Y	O	—

¹ THE FABRICATOR OR DIRECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.

O - OBSERVE THESE ITEMS ON A RANDOM BASIS.
P - PERFORM THESE TASKS FOR EACH STEEL ELEMENT
QC - PROVIDED BY FABRICATOR AND ERECTOR
QA - PROVIDED BY OWNER'S AGENT

AISC TABLE N5.4-2
INSPECTION TASKS DURING WELDING

INSPECTION TASKS DURING WELDING	APPLICABLE TO THIS PROJECT	QC	QA
USE OF QUALIFIED WELDERS	Y	O	O
CONTROL AND HANDLING OF WELDING CONSUMABLES			
• PACKAGING	Y	O	O
• EXPOSURE CONTROL			
NO WELDING OVER CRACKED TACK WELDS	Y	O	O
ENVIRONMENTAL CONDITIONS			
• WIND SPEED WITHIN LIMITS	Y	O	O
• PRECIPITATION AND TEMPERATURE			
WPS FOLLOWED			
• SETTINGS ON WELDING EQUIPMENT			
• TRAVEL SPEED			
• SELECTED WELDING MATERIALS	Y	O	O
• SHIELDING GAS TYPE/FLOW RATE			
• PREHEAT APPLIED			
• INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.)			
• PROPER POSITION (E, V, H, OH)			
WELDING TECHNIQUES			
• INTERPASS AND FINAL CLEANING	Y	O	O
• EACH PASS WITHIN PROFILE LIMITATIONS			
• EACH PASS MEETS QUALITY REQUIREMENTS			

O - OBSERVE THESE ITEMS ON A RANDOM BASIS.
P - PERFORM THESE TASKS FOR EACH STEEL ELEMENT
QC - PROVIDED BY FABRICATOR AND ERECTOR
QA - PROVIDED BY OWNER'S AGENT

INSPECTION TASKS AFTER BOLTING	APPLICABLE TO THIS PROJECT	QC	QA
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	Y	P	P

O - OBSERVE THESE ITEMS ON A RANDOM BASIS.
P - PERFORM THESE TASKS FOR EACH STEEL ELEMENT.
QC - PROVIDED BY FABRICATOR AND ERECTOR
QA - PROVIDED BY OWNER'S AGENT

AISC TABLE N5.4-3
INSPECTION TASKS AFTER WELDING

INSPECTION TASKS AFTER WELDING	APPLICABLE TO THIS PROJECT	QC	QA
WELDS CLEANED	Y	O	O
SIZE, LENGTH AND LOCATION OF WELDS	Y	P	P
WELDS MEET VISUAL ACCEPTANCE CRITERIA			
<ul style="list-style-type: none"> • CRACK PROHIBITION • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY 	Y	P	P
ARC STRIKES	Y	P	P
K-AREA ¹	Y	P	P
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	Y	P	P
REPAIR ACTIVITIES	Y	P	P
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	Y	P	P
¹ WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3 in. (75 mm) OF THE WELD.			

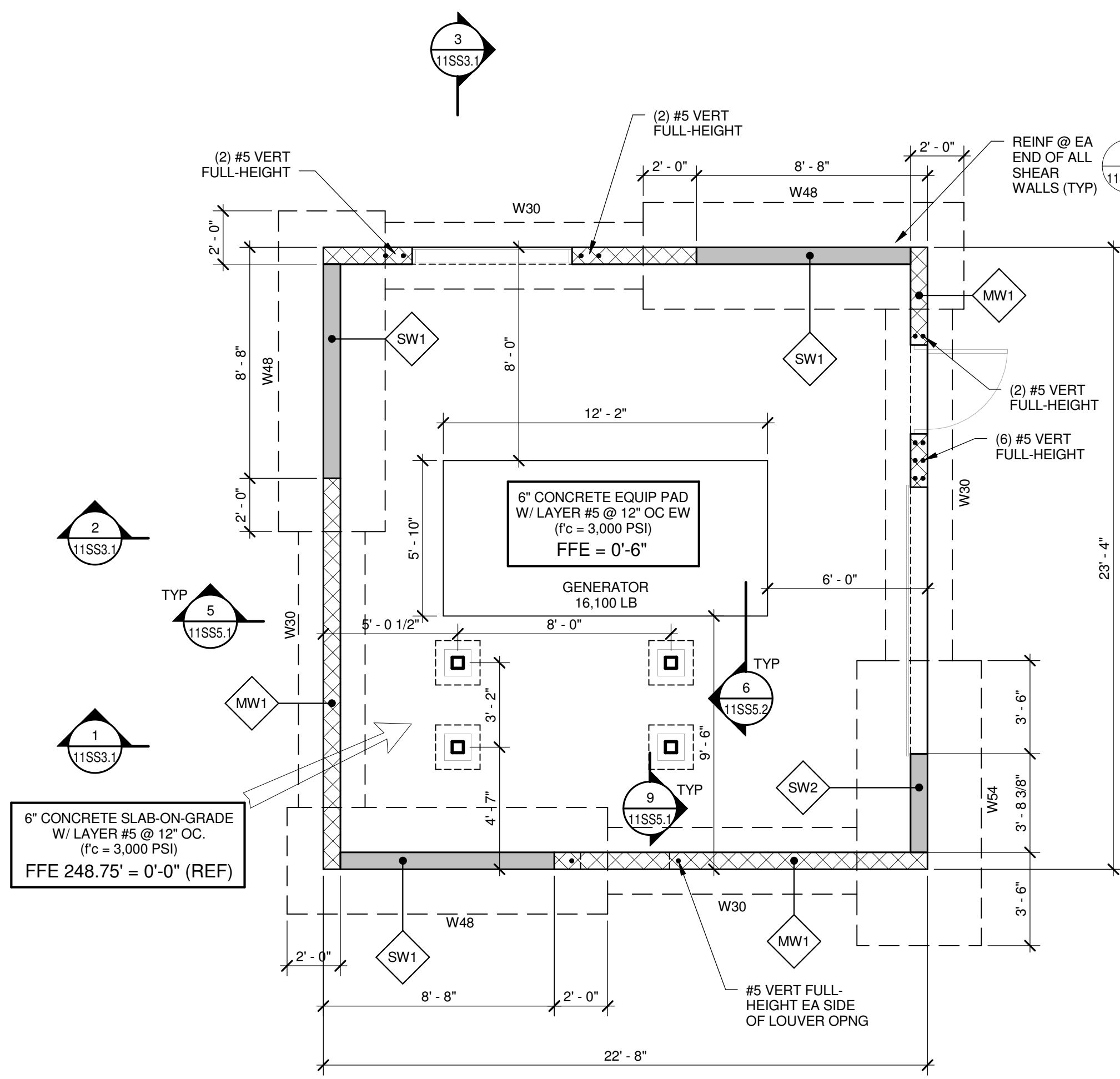
O - OBSERVE THESE ITEMS ON A RANDOM BASIS.
P - PERFORM THESE TASKS FOR EACH STEEL ELEMENT
QC - PROVIDED BY FABRICATOR AND ERECTOR
QA - PROVIDED BY OWNER'S AGENT

a. WHERE APPLICABLE, SEE ALSO SECTION 1705.11, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.

b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH ACI 355.2 OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

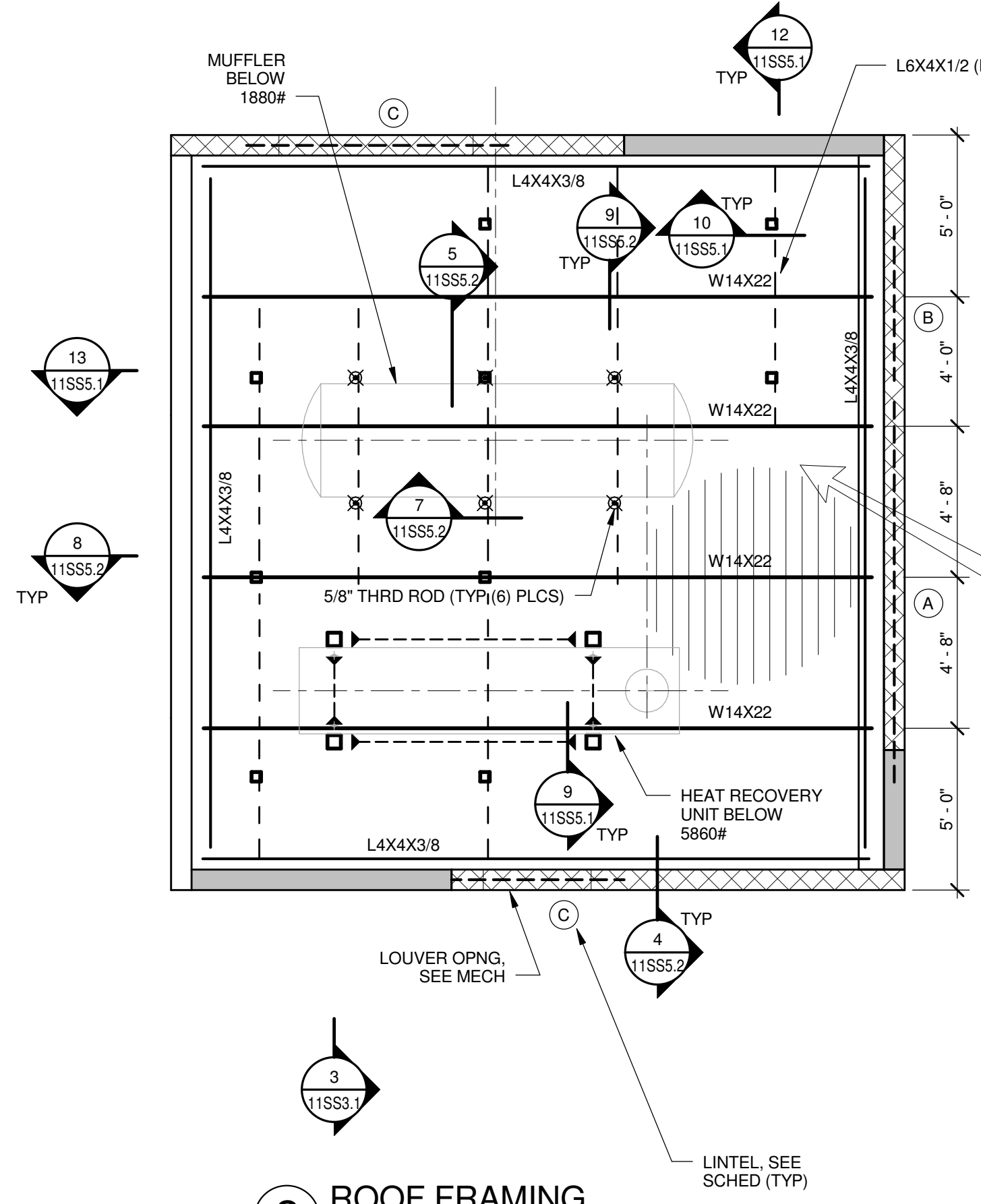
 Department of
Veterans Affairs

one eighth inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
three inches = one foot
four inches = one foot
five inches = one foot
six inches = one foot
seven inches = one foot
eight inches = one foot
nine inches = one foot
ten inches = one foot
eleven inches = one foot
twelve inches = one foot
thirteen inches = one foot
fourteen inches = one foot
fifteen inches = one foot
sixteen inches = one foot
seventeen inches = one foot
eighteen inches = one foot
nineteen inches = one foot
twenty inches = one foot
twenty one inches = one foot
twenty two inches = one foot
twenty three inches = one foot
twenty four inches = one foot
twenty five inches = one foot
twenty six inches = one foot
twenty seven inches = one foot
twenty eight inches = one foot
twenty nine inches = one foot
thirty inches = one foot
thirty one inches = one foot
thirty two inches = one foot
thirty three inches = one foot
thirty four inches = one foot
thirty five inches = one foot
thirty six inches = one foot
thirty seven inches = one foot
thirty eight inches = one foot
thirty nine inches = one foot
forty inches = one foot
forty one inches = one foot
forty two inches = one foot
forty three inches = one foot
forty four inches = one foot
forty five inches = one foot
forty six inches = one foot
forty seven inches = one foot
forty eight inches = one foot
forty nine inches = one foot
fifty inches = one foot
fifty one inches = one foot
fifty two inches = one foot
fifty three inches = one foot
fifty four inches = one foot
fifty five inches = one foot
fifty six inches = one foot
fifty seven inches = one foot
fifty eight inches = one foot
fifty nine inches = one foot
sixty inches = one foot
sixty one inches = one foot
sixty two inches = one foot
sixty three inches = one foot
sixty four inches = one foot
sixty five inches = one foot
sixty six inches = one foot
sixty seven inches = one foot
sixty eight inches = one foot
sixty nine inches = one foot
seventy inches = one foot
seventy one inches = one foot
seventy two inches = one foot
seventy three inches = one foot
seventy four inches = one foot
seventy five inches = one foot
seventy six inches = one foot
seventy seven inches = one foot
seventy eight inches = one foot
seventy nine inches = one foot
eighty inches = one foot
eighty one inches = one foot
eighty two inches = one foot
eighty three inches = one foot
eighty four inches = one foot
eighty five inches = one foot
eighty six inches = one foot
eighty seven inches = one foot
eighty eight inches = one foot
eighty nine inches = one foot
ninety inches = one foot
ninety one inches = one foot
ninety two inches = one foot
ninety three inches = one foot
ninety four inches = one foot
ninety five inches = one foot
ninety six inches = one foot
ninety seven inches = one foot
ninety eight inches = one foot
ninety nine inches = one foot
one hundred inches = one foot



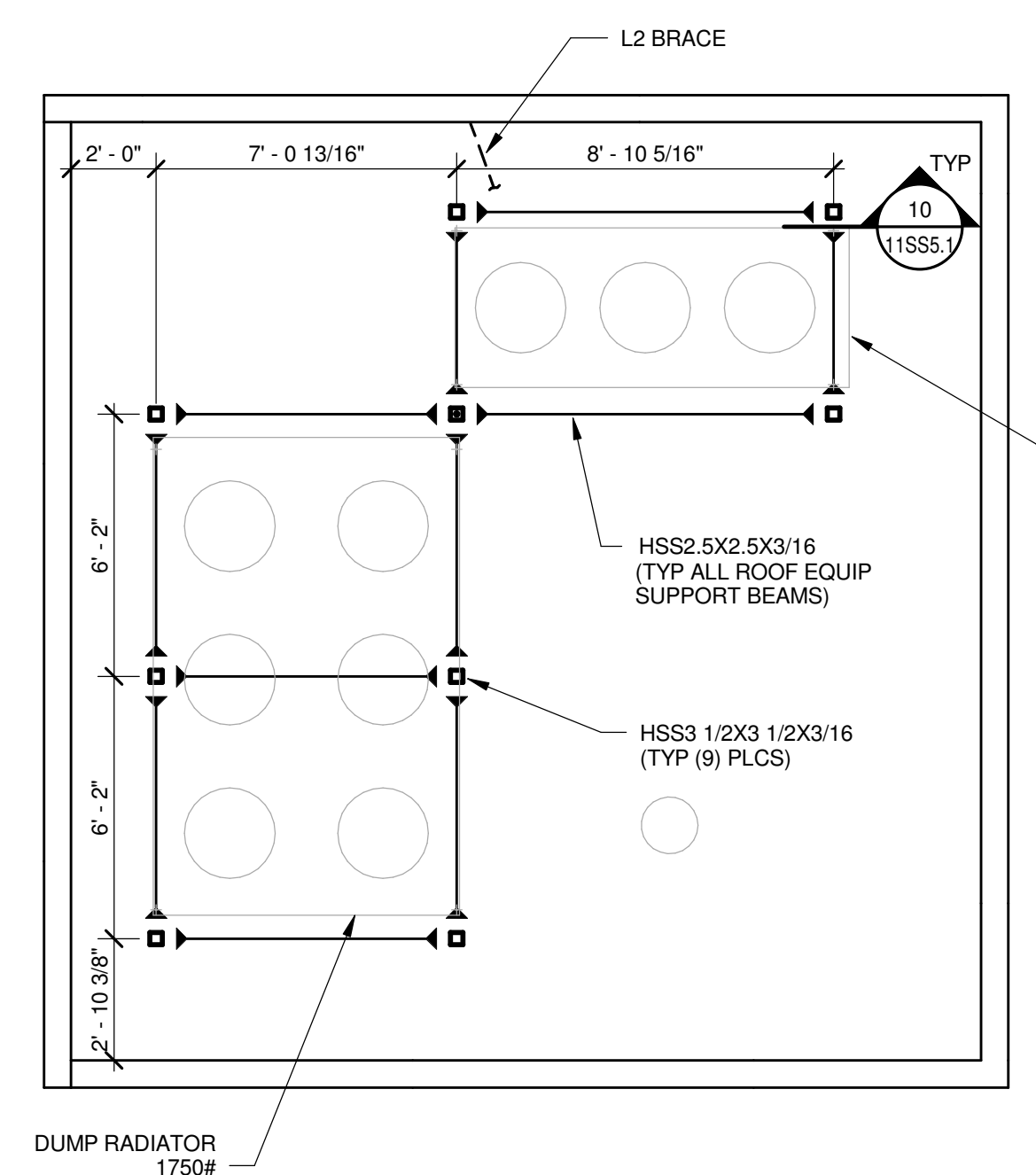
1 FOUNDATION PLAN
1/4" = 1'-0"

FOUNDATION PLAN NOTES:
1. CONTRACTOR SHALL COORDINATE ALL EQUIPMENT HOUSEKEEPING PAD DIMENSIONS WITH OTHER DISCIPLINES.
2. TOP OF CONTINUOUS FOOTERS SHALL BE +1'-4" UNLESS NOTED OTHERWISE.



2 ROOF FRAMING
1/4" = 1'-0"

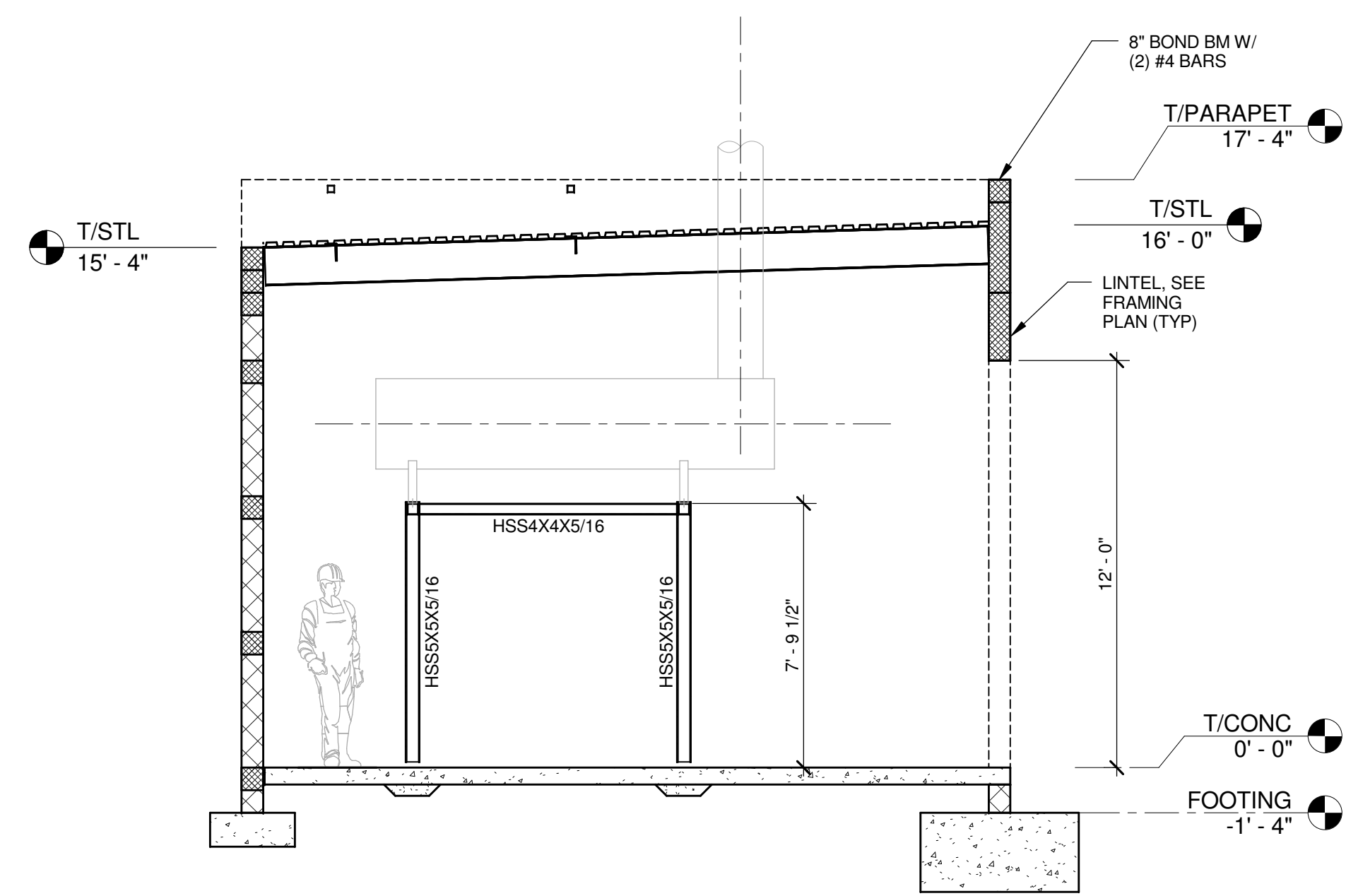
ROOF FRAMING NOTES:
1. CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS WITH OTHER DISCIPLINES.



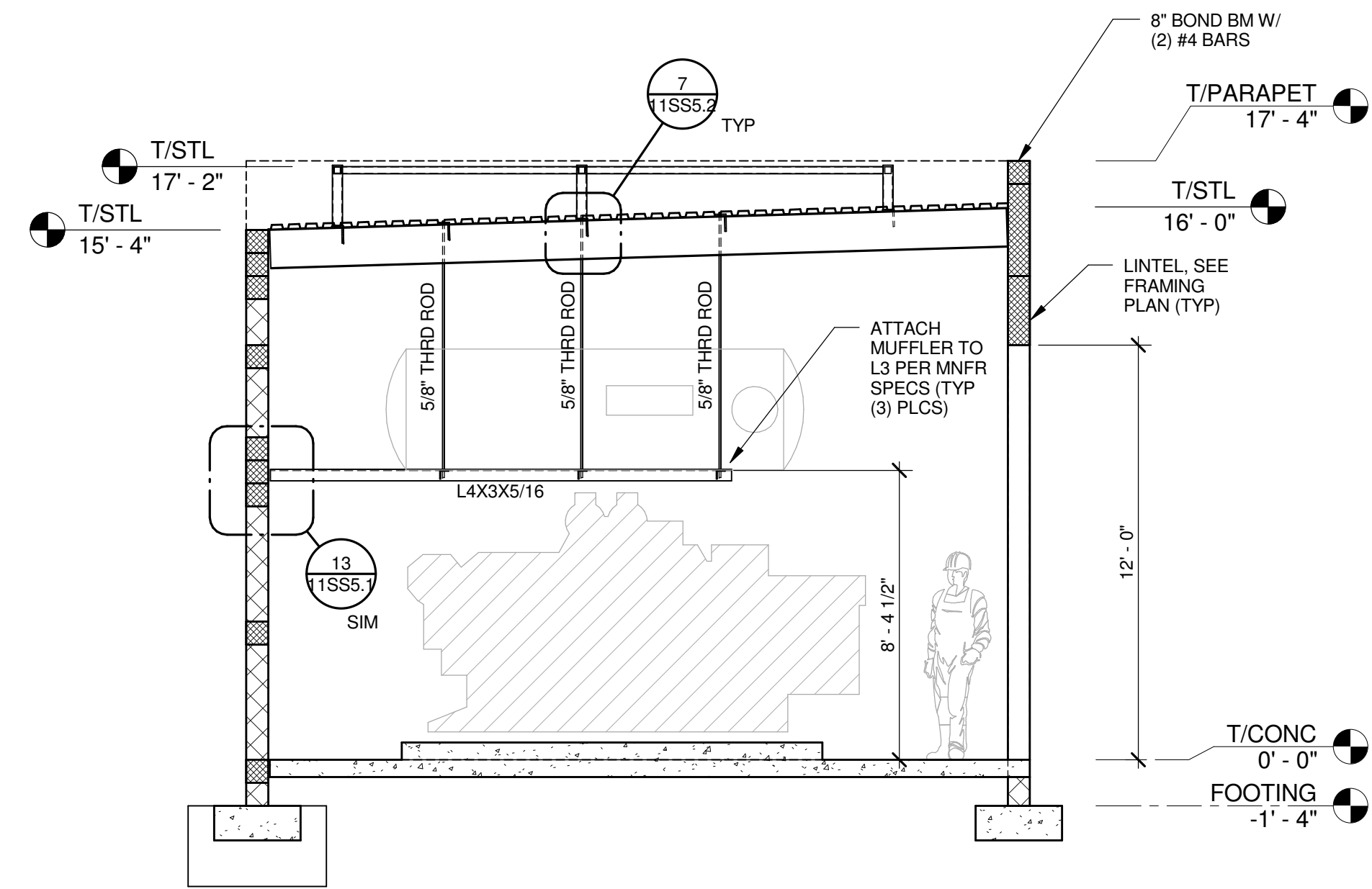
3 EQUIPMENT SUPPORT PLAN
1/4" = 1'-0"

ROOF FRAMING NOTES:
1. ALL EQUIPMENT SUPPORT STEEL ABOVE ROOF SHALL BE HOT DIPPED GALVANIZED.

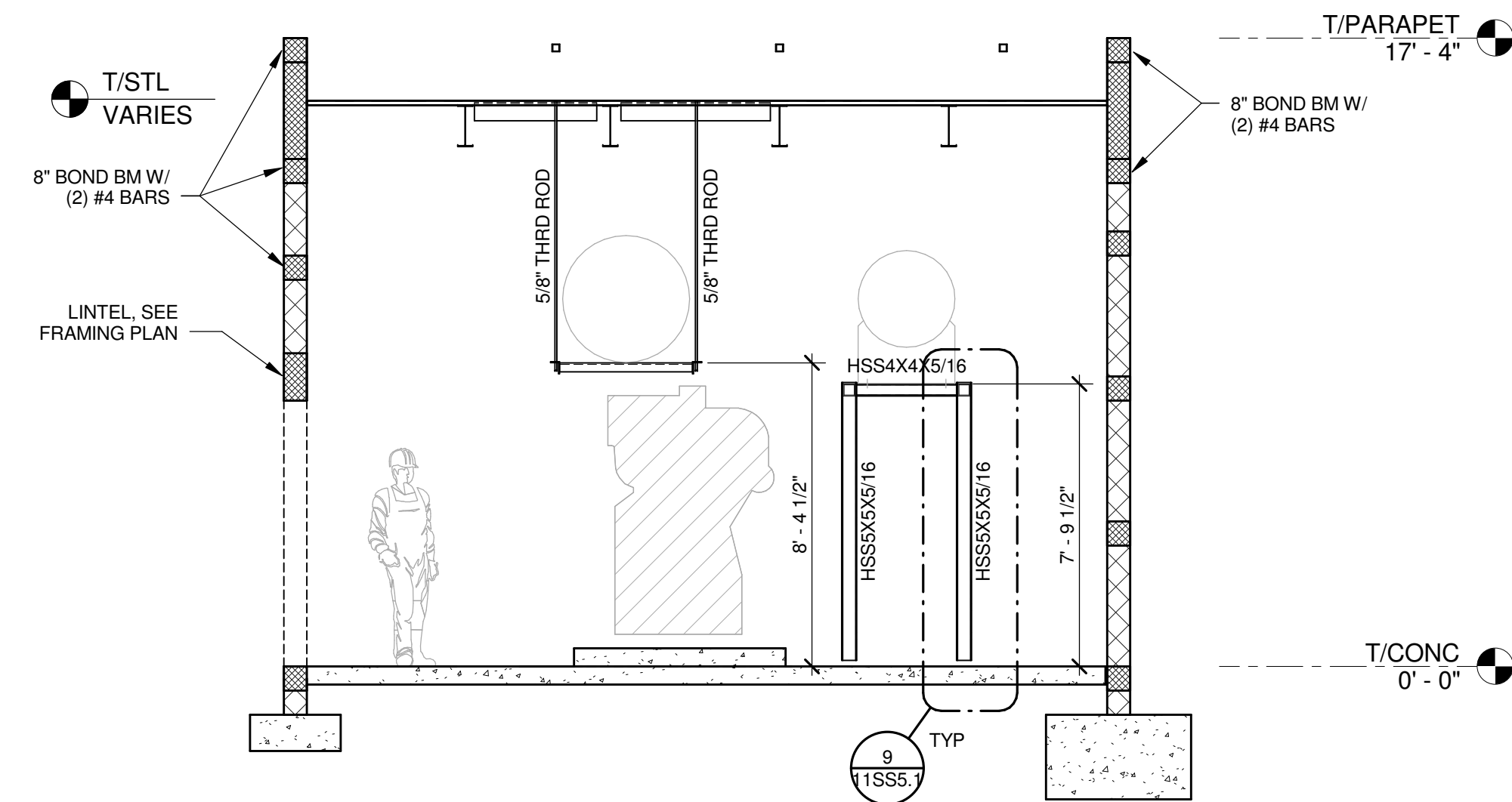
Revisions:	Date:	CONSULTANTS:	ARCHITECT/ENGINEERS:	Drawing Title	Project Title	Project Number
				FOUNDATION AND FRAMING PLANS	MEMPHIS COMBINED HEAT AND POWER PLANT DESIGN	614-16-114
				Approved: Project Director	Location	Building Number
				VAPAHCS PLANNING AND ENGINEERING	VAMC MEMPHIS	
					TN	Drawing Number
					Date	11SS1.1
					MARCH 10, 2016	Dwg. 14 of 39
					Checked	
					PM	
					Drawn	
					CWS	



1 BUILDING SECTION
1/4" = 1'-0"



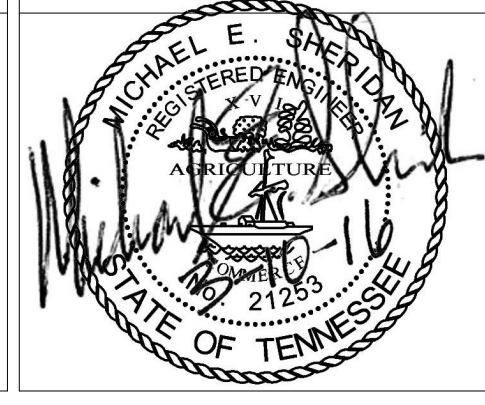
2 BUILDING SECTION
1/4" = 1'-0"



3 BUILDING SECTION
1/4" = 1'-0"

CONSULTANTS:

ARCHITECT/ENGINEERS:



Allen & Hoshall
1661 International Drive Memphis, TN 38120
901 820 0820 fax 901 683 1001

Drawing Title

BUILDING SECTIONS

Approved: Project Director

VAPAHCS PLANNING AND ENGINEERING

Project Title
MEMPHIS COMBINED HEAT AND
POWER PLANT DESIGN

Location
VAMC MEMPHIS TN

Date
MARCH 10, 2016

Checked
PM

Drawn
CWS

Project Number
614-16-114

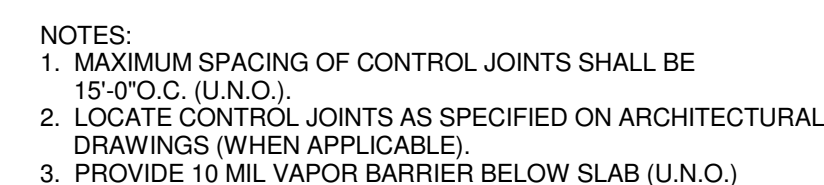
Building Number

Drawing Number
11SS3.1

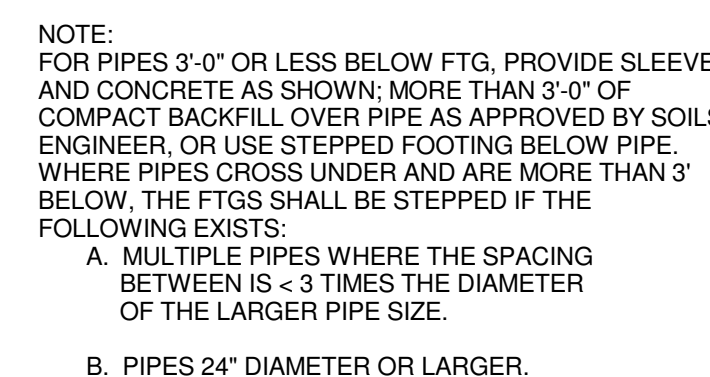
Dwg. 15 of 39

Office of
Construction
and Facilities
Management





1 SLAB-ON-GRADE DETAILS



2 PIPE @ FOOTING DETAIL
3/4" = 1'-0"

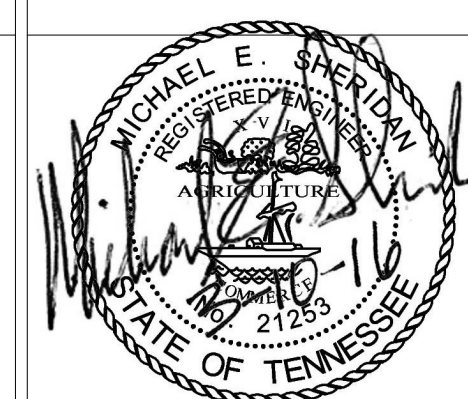


NOTES:
1. REFER TO FOUNDATION PLAN FOR ADDITIONAL FULL-HEIGHT VERTICAL BARS AT OPENING AND SHEAR WALL ENDS.

NOTES:
1. ALL CMU LINTELS SHALL BE GROUTED SOLID

[illegible]

CONSULTANTS:



ARCHITECT/ENGINEERS:



Allen & Hoshall
1661 International Drive Memphis, TN 38120
901 820 0820 fax 901 683 1001

Drawing Title	STRUCTURAL DETAILS & SCHEDULES
---------------	--------------------------------

Approved: Project Director

VAPAHCS PLANNING AND ENGINEERING

Project Title	MEMPHIS COMBINED HEAT AND POWER PLANT DESIGN
---------------	--

Location	VAMC MEMPHIS
----------	--------------

Date
MARCH 10, 201

TM

Checked PM	Drawn JTS
---------------	--------------

Project Number

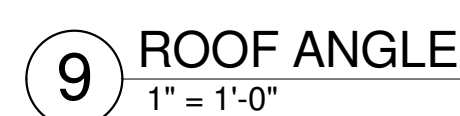
Building Number

Drawing Number

11SS5.1


Office of
Construction
and Facilities
Management





CONSULTANTS:



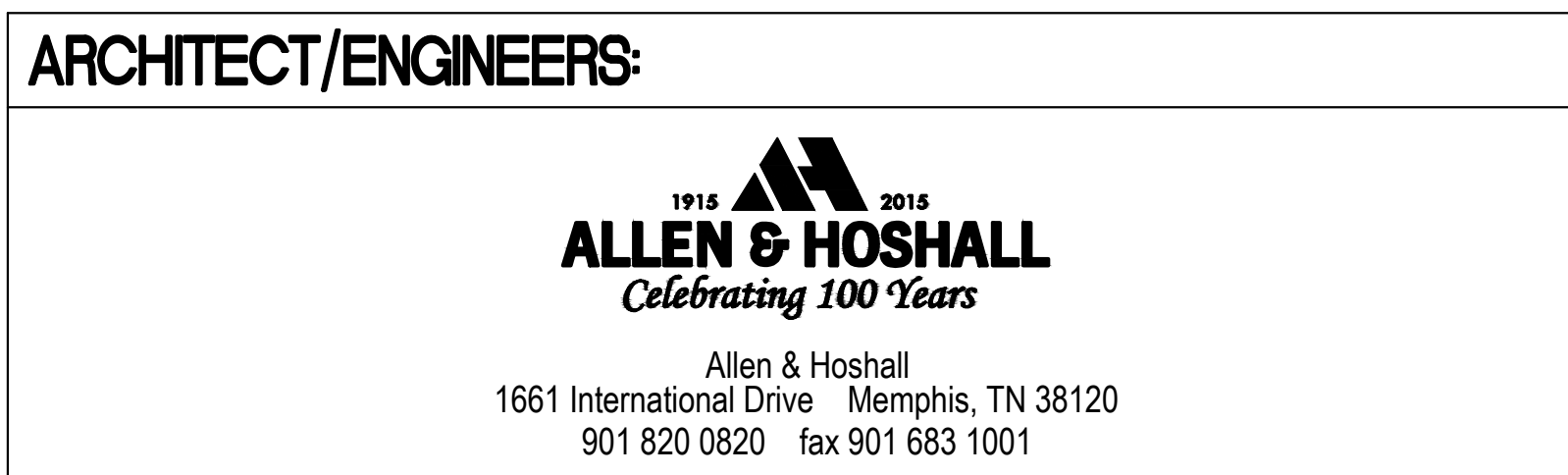
Project Title MEMPHIS COMBINED HEAT AND POWER PLANT DESIGN			Project Number 614-16-114		<div> Office of Construction and Facilities Management </div> <div>  Department of Veterans Affairs </div>
			Building Number		
Location VAMC MEMPHIS TN			Drawing Number 11SS5.2		
Date MARCH 10, 2016	Checked PM	Drawn CWS	Dwg. 17 of 39		



Revisions:




CONSULTANTS:




Project Title		
MEMPHIS COMBINED HEAT AND POWER PLANT DESIGN		
Location		
VAMC	MEMPHIS	TN
Date	Checked	Drawn
MARCH 10, 2016	WLP	WLP

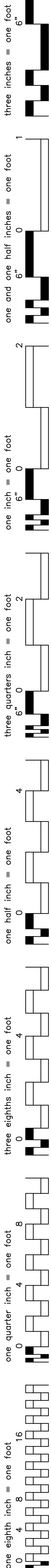
**Office of
Construction
and Facilities
Management**

 Department of
Veterans Affairs



**Office of
Construction
and Facilities
Management**

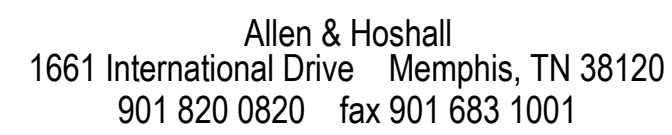
 Department of
Veterans Affairs



one eighth inch = one foot



	9018
--	------



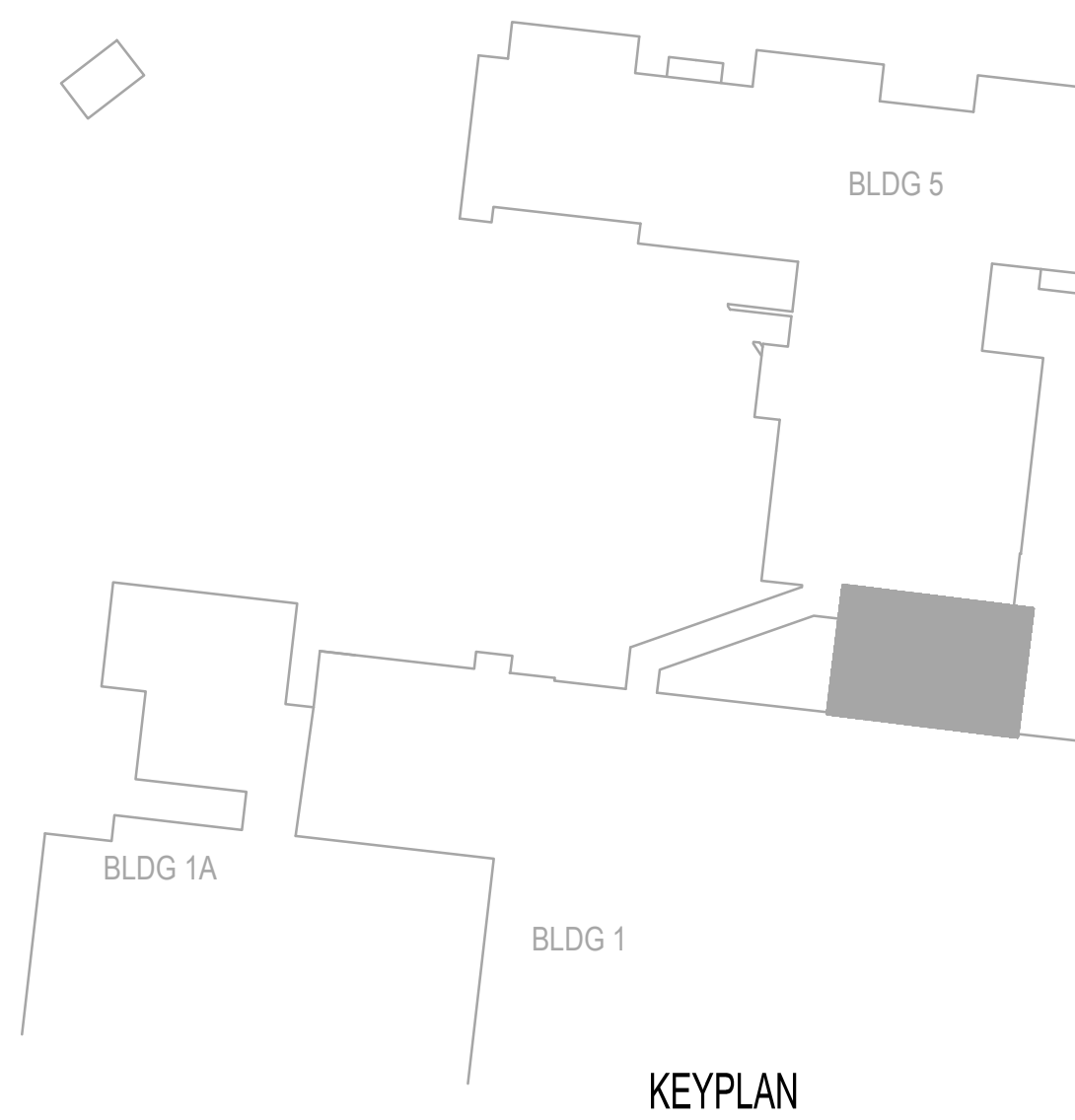
Allen & Hoshall
1661 International Drive Memphis, TN 38120
901 820 0820 fax 901 683 1001

--	--

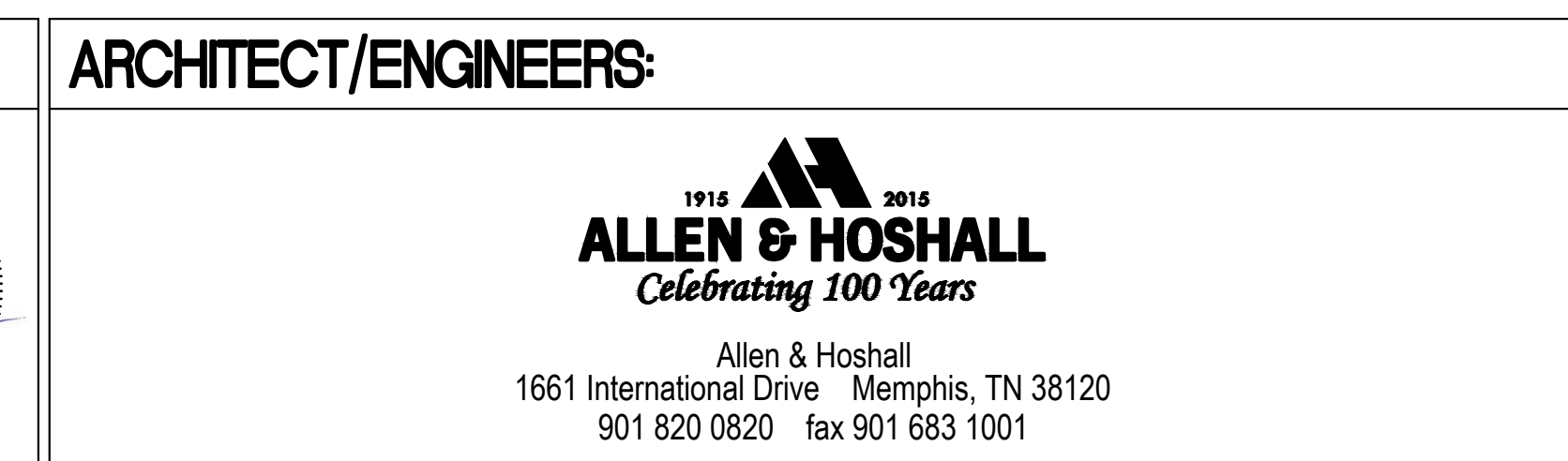
	MARCH 10, 2010	WLP	WLP
--	----------------	-----	-----

	Dwg. 23 of
--	------------

 Department of
Veterans Affairs




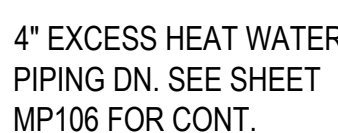
(1)

[illegible]

Project Title		
MEMPHIS COMBINED HEAT AND POWER PLANT DESIGN		
Location		
VAMC	MEMPHIS	TN
Date	Checked	Drawn
MARCH 10, 2016	WLP	WLP

**Office of
Construction
and Facilities
Management**

 Department of
Veterans Affairs

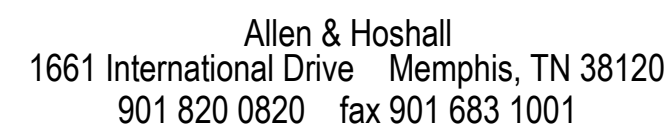


SCALE: 1/2" = 1'-0"



one eighth inch = one foot


VA FORM 08-6231

MP107
Dwg. 26 of 39

Department of
Veterans Affairs



**Office of
Construction
and Facilities
Management**

 Department of
Veterans Affairs

NT9

NTS

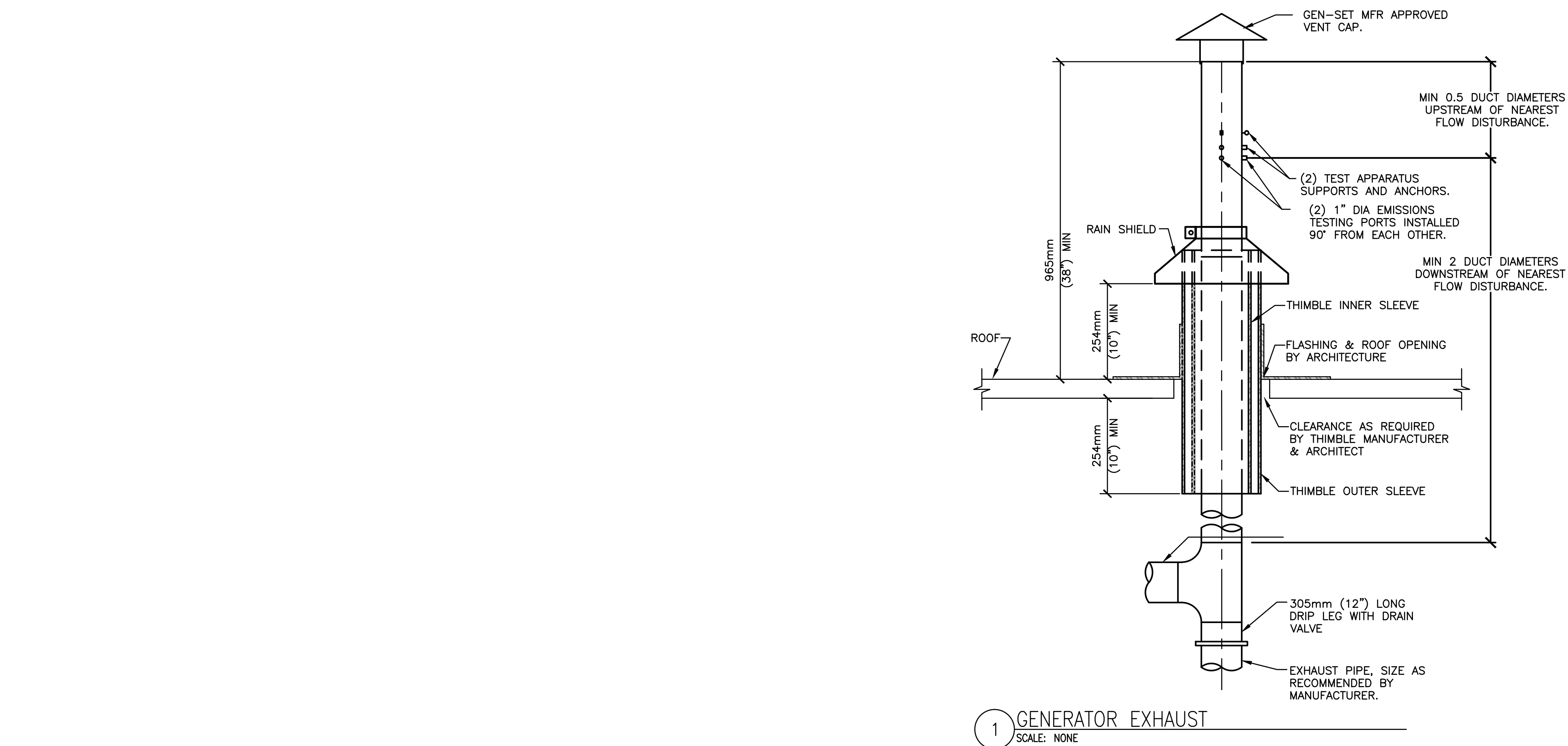
NTS

 Department of
Veterans Affairs

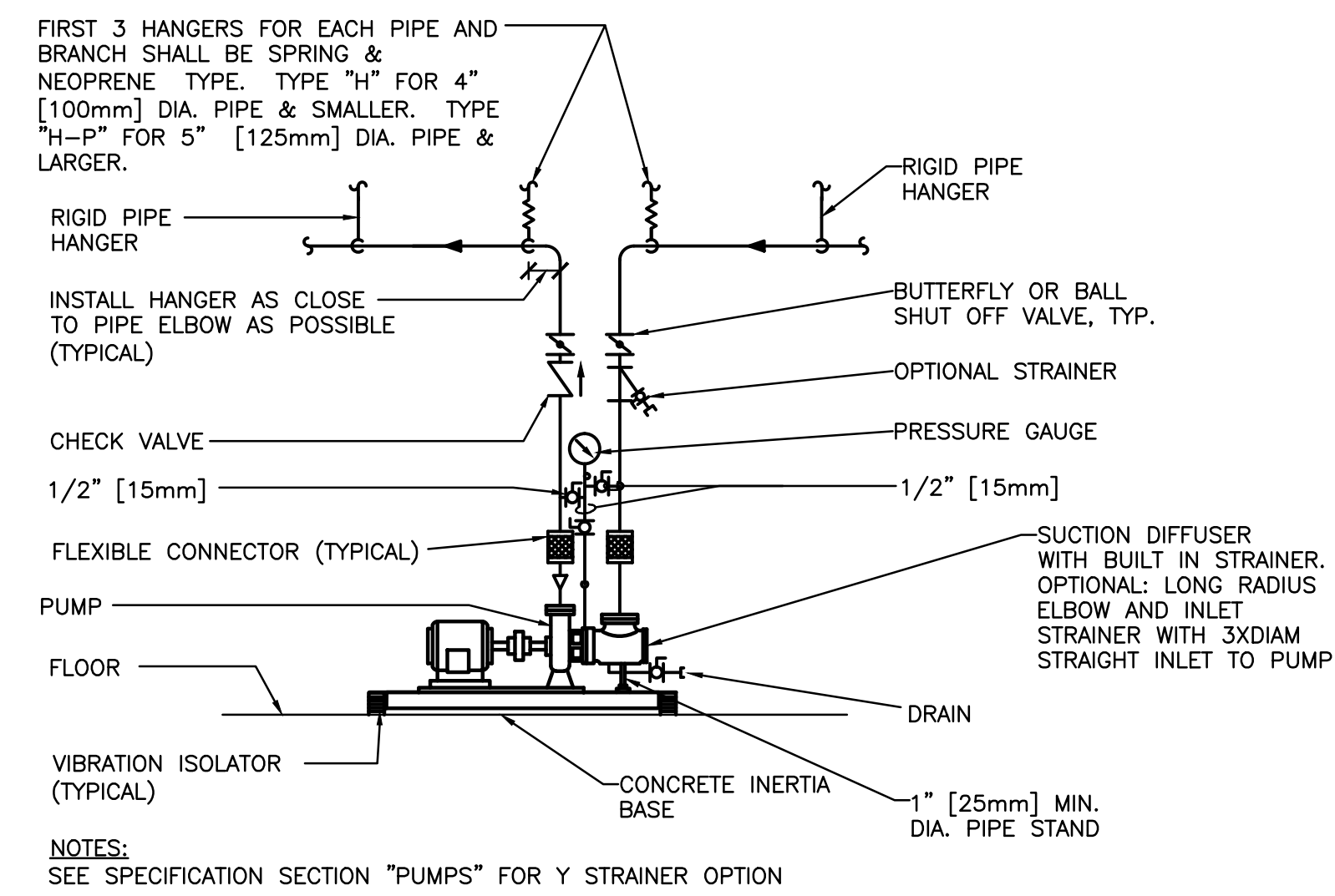
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

AL:Wen:MS501.dwg 7-06-16 03:37:23 PM jpolmer

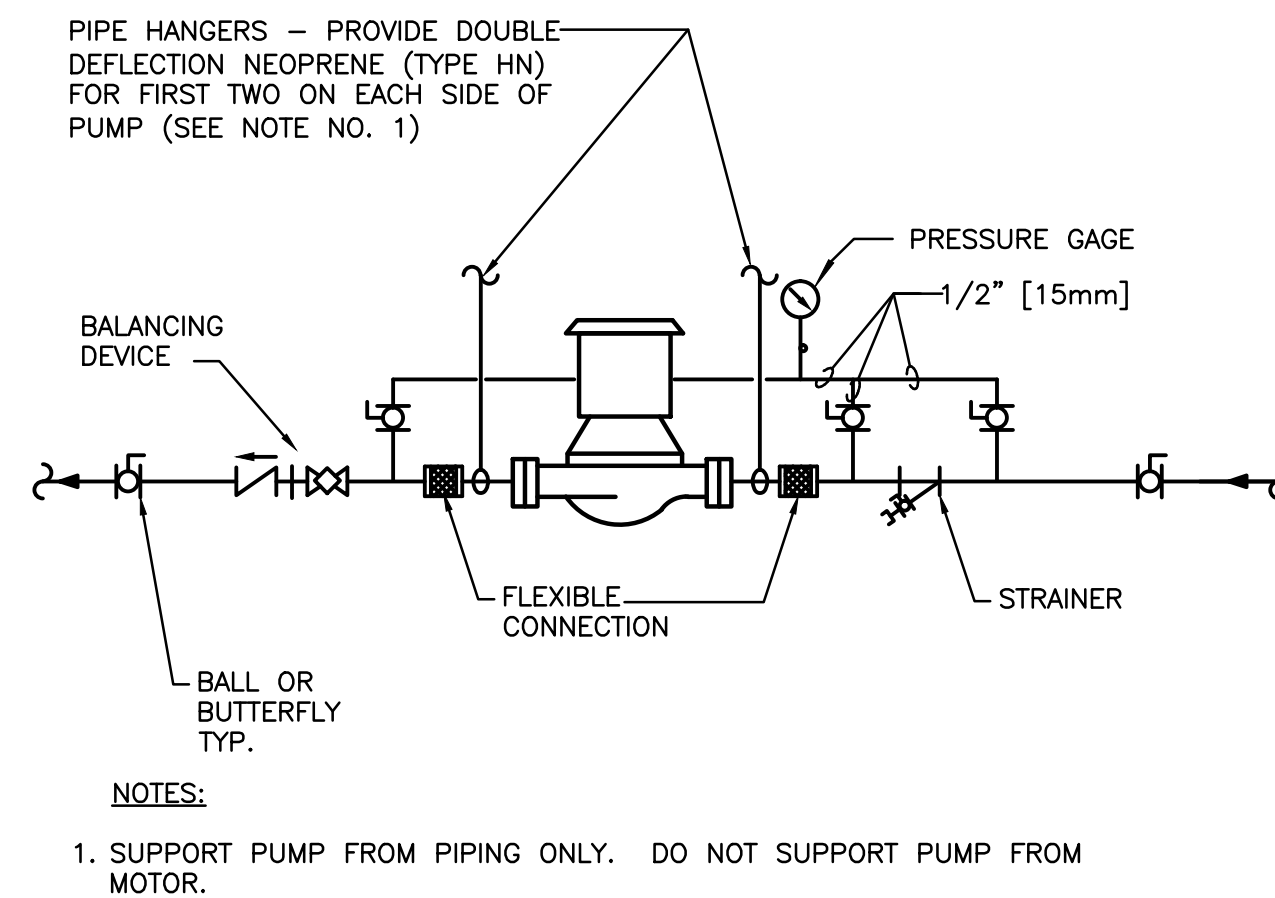
VA FORM 08-6231



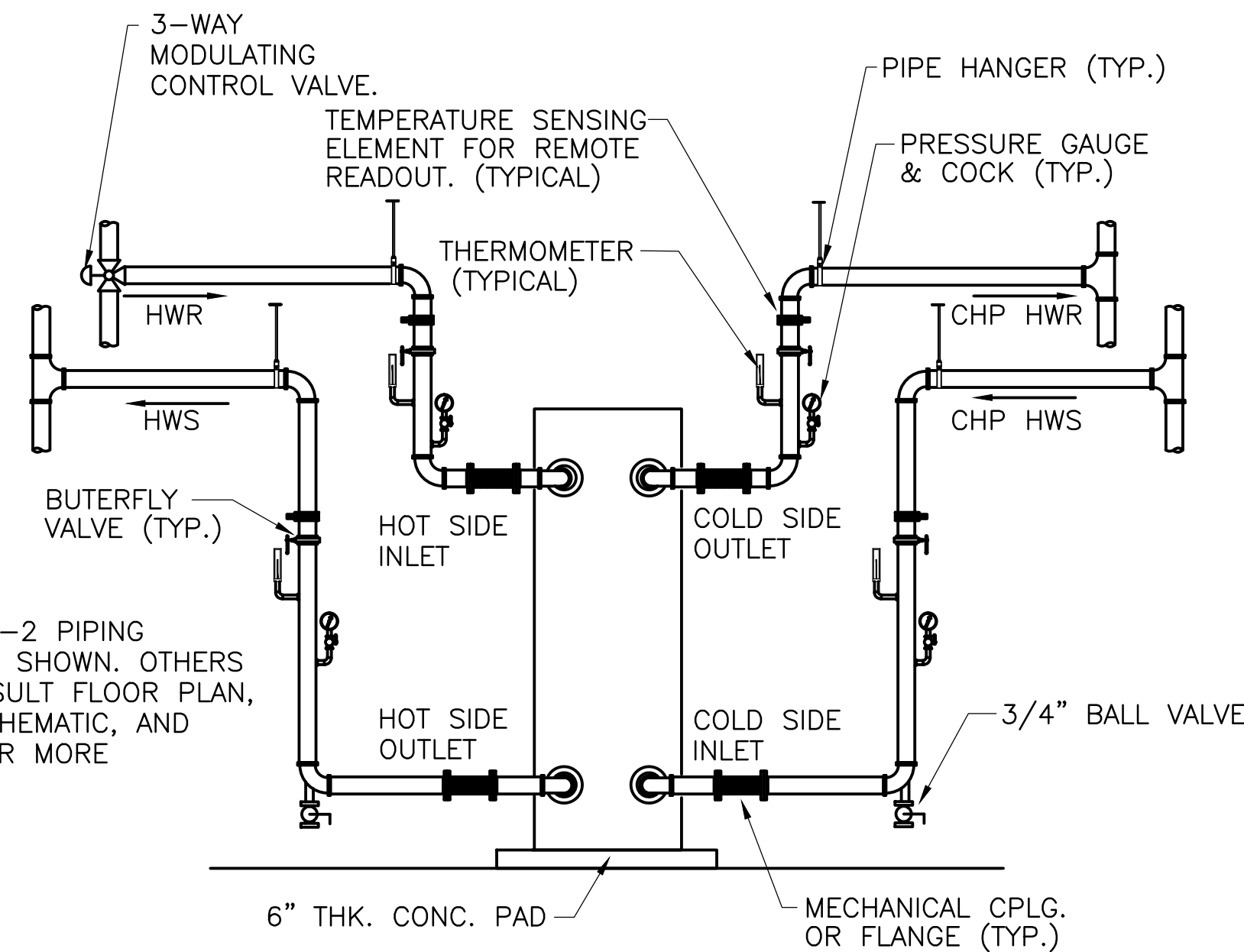
1 GENERATOR EXHAUST
SCALE: NONE



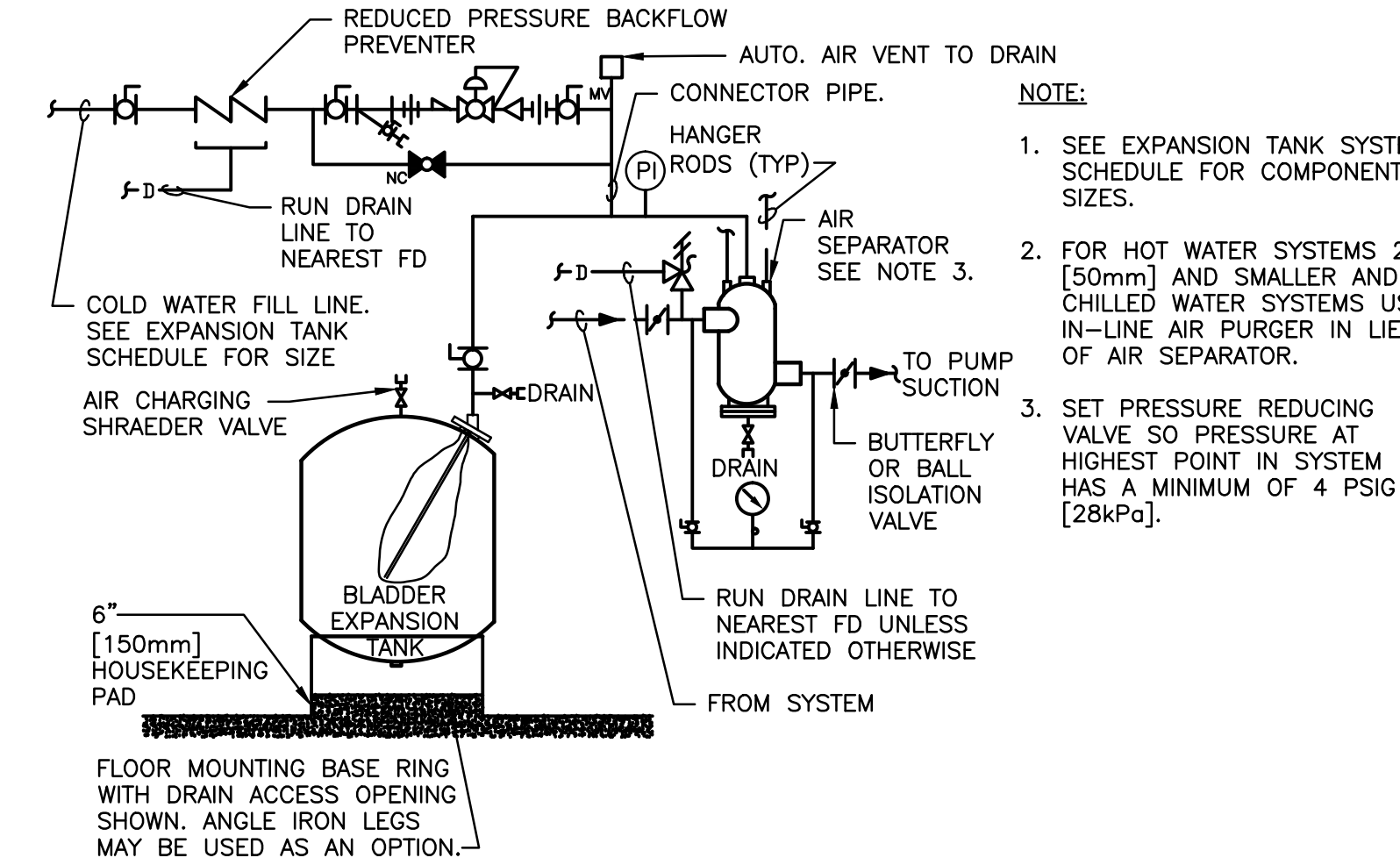
2 END SUCTION PUMP DETAIL
SCALE: NONE



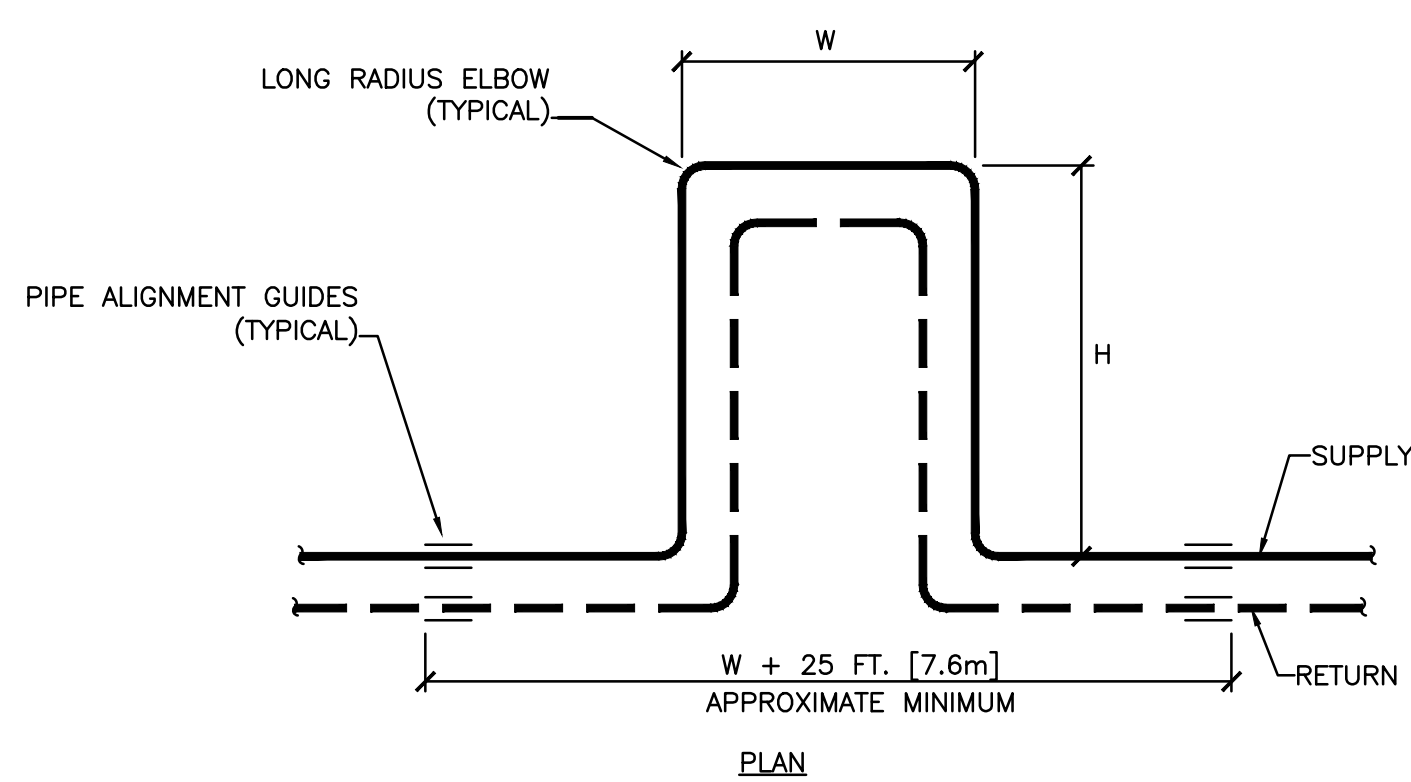
3 IN-LINE PUMPS-CONNECTIONS
SCALE: NONE



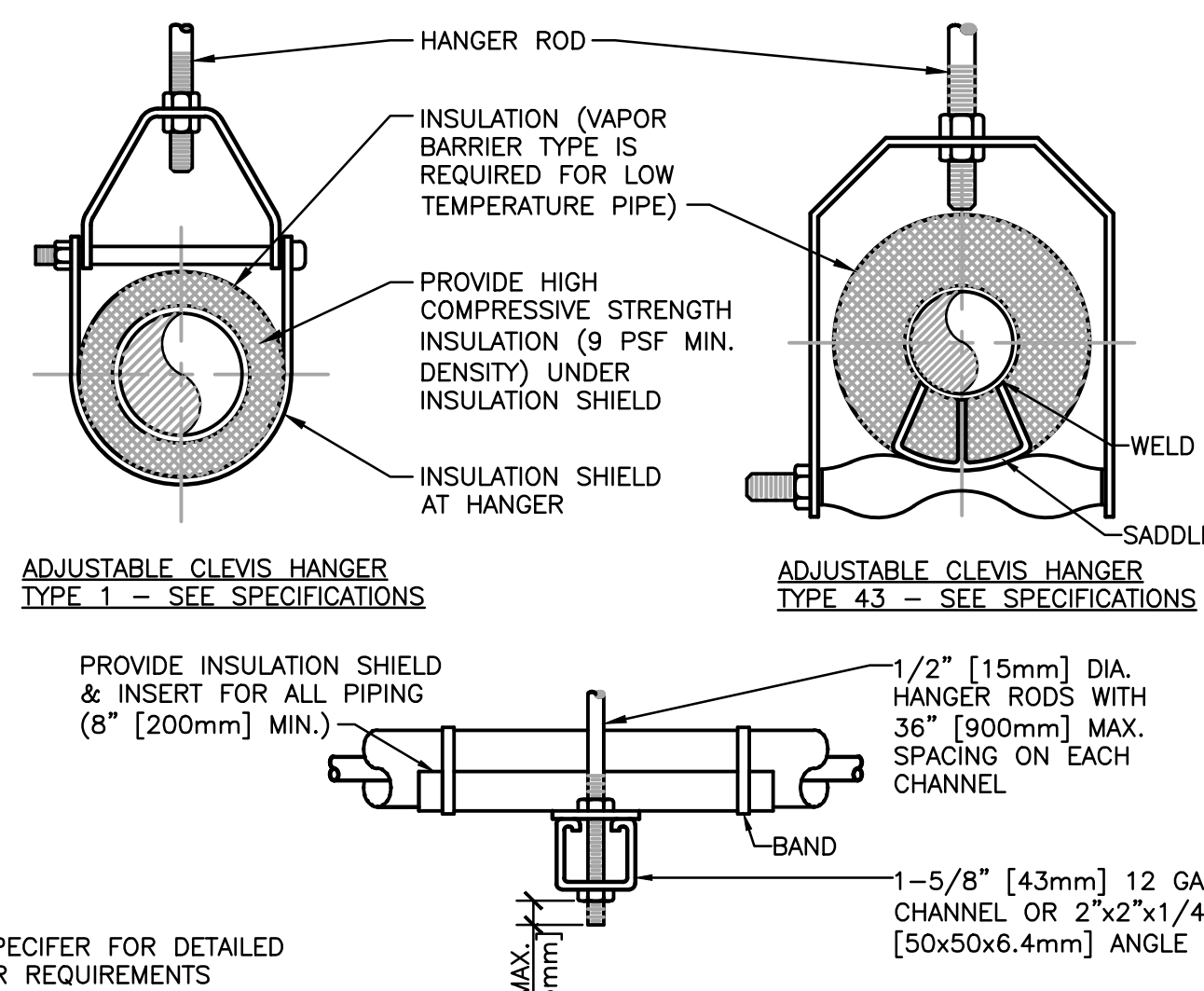
4 PLATE & FRAME HEAT EXCHANGER DETAIL
SCALE: NONE



5 FLOOR MOUNTED EXPANSION TANK - PIPING CONNECTIONS
SCALE: NONE



6 EXPANSION LOOP DETAIL
SCALE: NONE

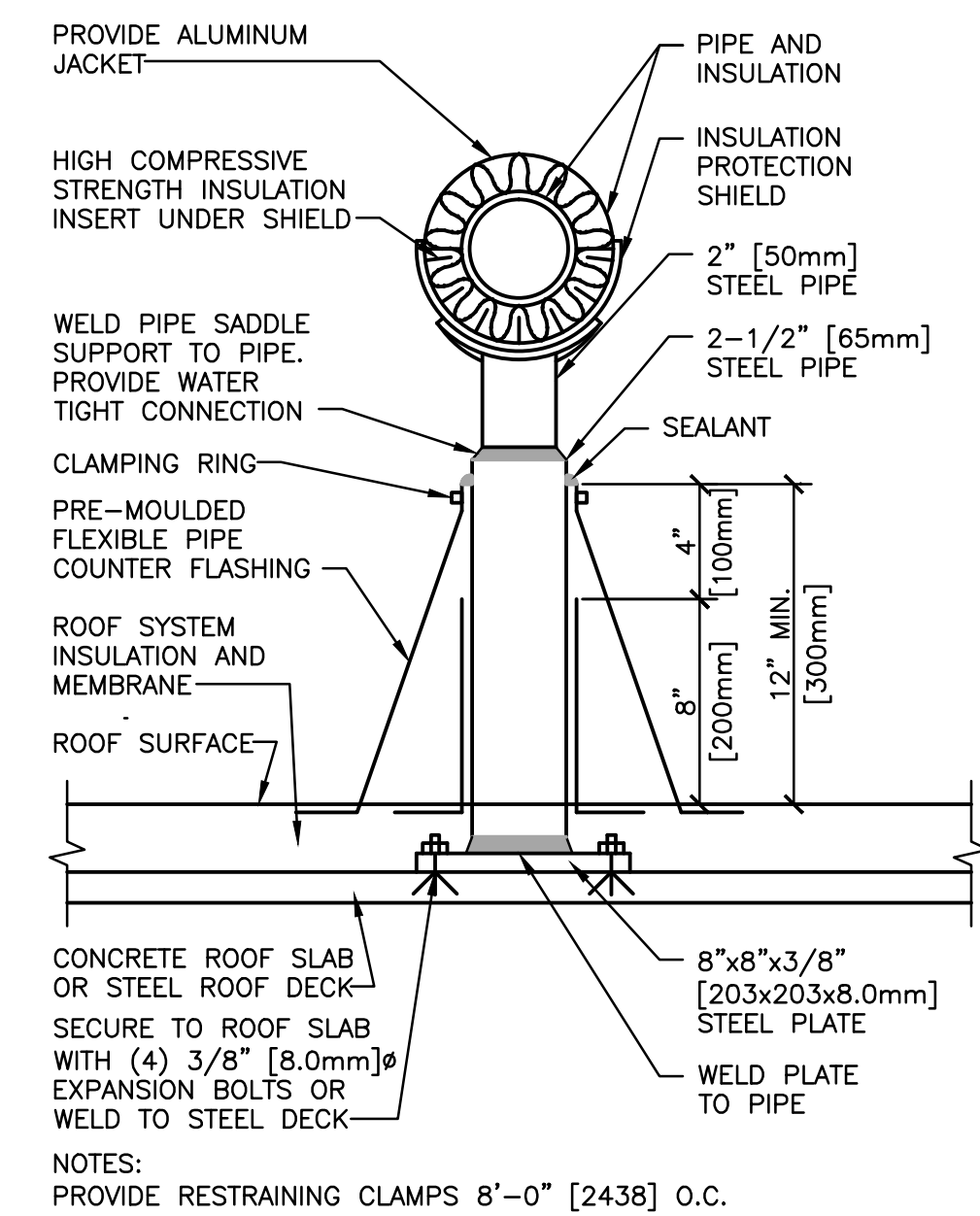


MAXIMUM PIPE/TUBING SUPPORT SPACING

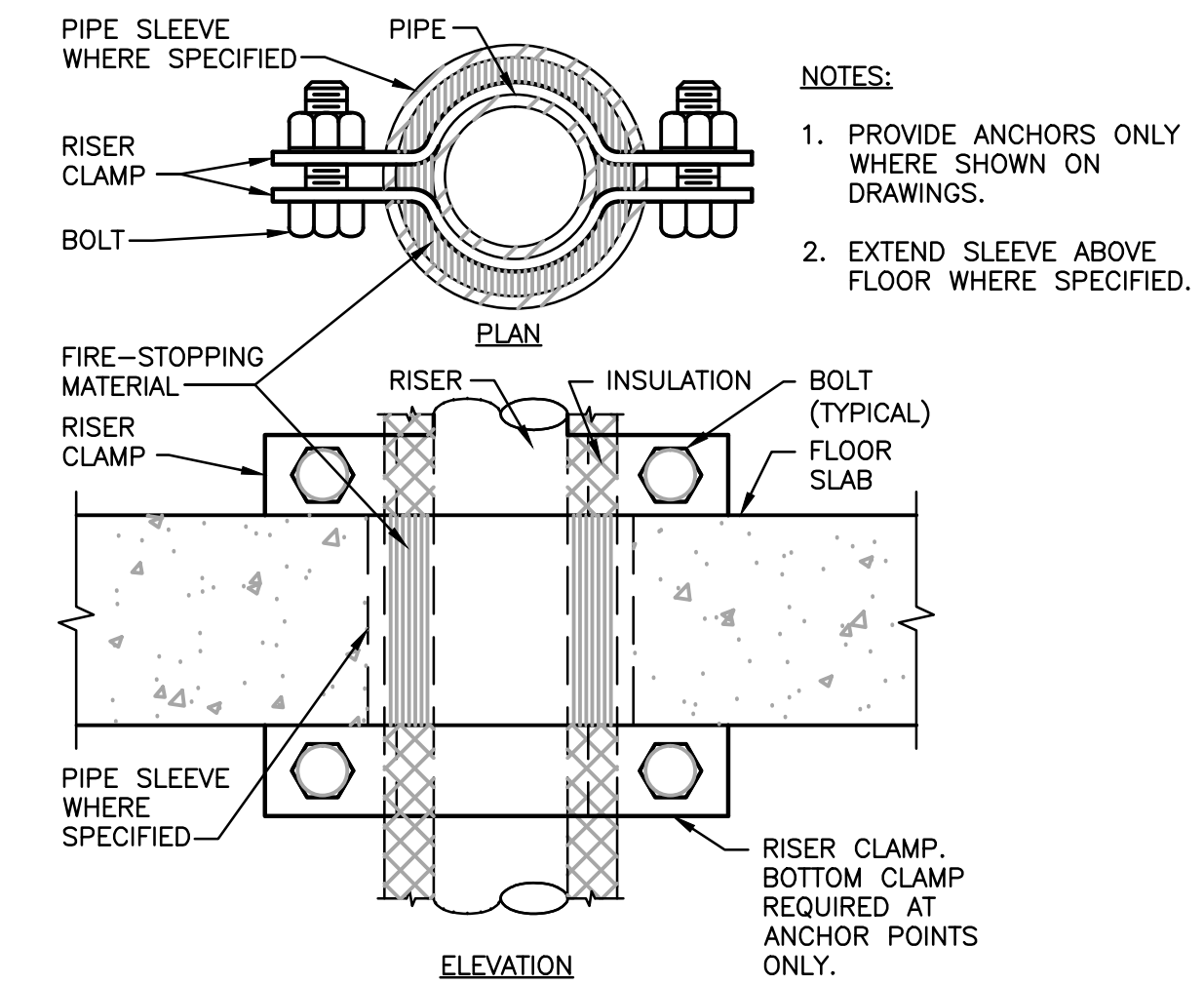
NOM. SIZE	IN.	THRU	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
PIPE	2100	2100	2100	2700	3000	3400	3700	4100	4800	5200	5800	6700	7600	8200	8500	9100	9600		
TUBING	5 FT	5 FT	5 FT	5 FT	5 FT	5 FT	5 FT	5 FT	5 FT	5 FT	5 FT	5 FT	5 FT	5 FT	5 FT	5 FT	5 FT	5 FT	5 FT

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

7 PIPE HANGERS
SCALE: NONE



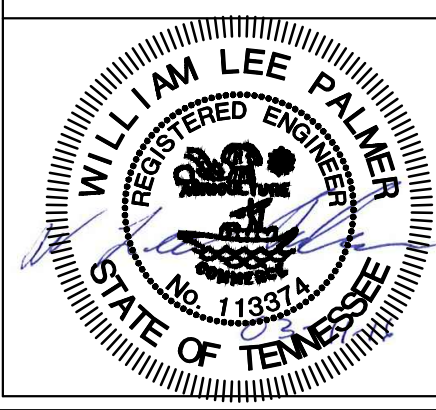
8 DETAIL FOR SUPPORTING PIPE ON ROOF
SCALE: NONE



9 SUPPORT/ANCHOR FOR PIPE RISERS
SCALE: NONE

CONSULTANTS:

ARCHITECT/ENGINEERS:



1915 2015
ALLEN & HOSHAL
Celebrating 100 Years

Allen & Hoshall
1661 International Drive Memphis, TN 38120
901 820 0820 fax 901 683 1001

Drawing Title
**GENERAL DETAILS
MECHANICAL**

Approved Project Director
-
VAPAHCS PLANNING AND ENGINEERING

Project Title
**MEMPHIS COMBINED HEAT AND
POWER PLANT DESIGN**

Location
VAMC MEMPHIS TN

Project Number
614-16-114

Drawing Number
MS501

Office of
Construction
and Facilities
Management

Department of
Veterans Affairs

1. DRAINABLE STAIONARY LOUVER WITH BIRDSCREEN AND TWO MOTORIZED DAMPERS. SEE FLOOR PLAN FOR DAMPER SEGMENT DIMINSIONS. BASIS OF DESIGN GREENHECK EDD-401

9. DESIGN PRESSURE OF 150 PSI AND TEST PRESSURE OF 225 PSI

1. BASIS OF DESIGN: KICKHAM BOILER MODEL ECXW-3280-1.5, 150 PSI DESIGN PRESSURE.

ALL SELECTIONS ARE BASED ON AN ALTITUDE OF 337.

 Department of
Veterans Affairs



1. LOCATION OF (4) 4" CONDUITS WITH (1) SPARE INSIDE SWITCHBOARD "SB-V1."

SCALE: $1/8" = 1'-0"$

Scale: 1/8"=1'-0"

 Department of
Veterans Affairs



2 EXISTING MOTOR CONTROL CENTER "G-N1" ELEVATION
SCALE: N.T.S.

1. THIS DRAWING IS FOR REFERENCE
INFORMATION ONLY.

3 EXISTING FEEDER SCHEDULE
SCALE: N.T.S.

4 EXISTING MOTOR CONTROL CENTER "G-N1" SCHEDULE
SCALE: N.T.S.

 Department of
Veterans Affairs

VA FORM 08-6231



three inches = one foot
6"

one and one half inches = one foot
6"

one inch = one foot
6"

three quarters inch = one foot
6"

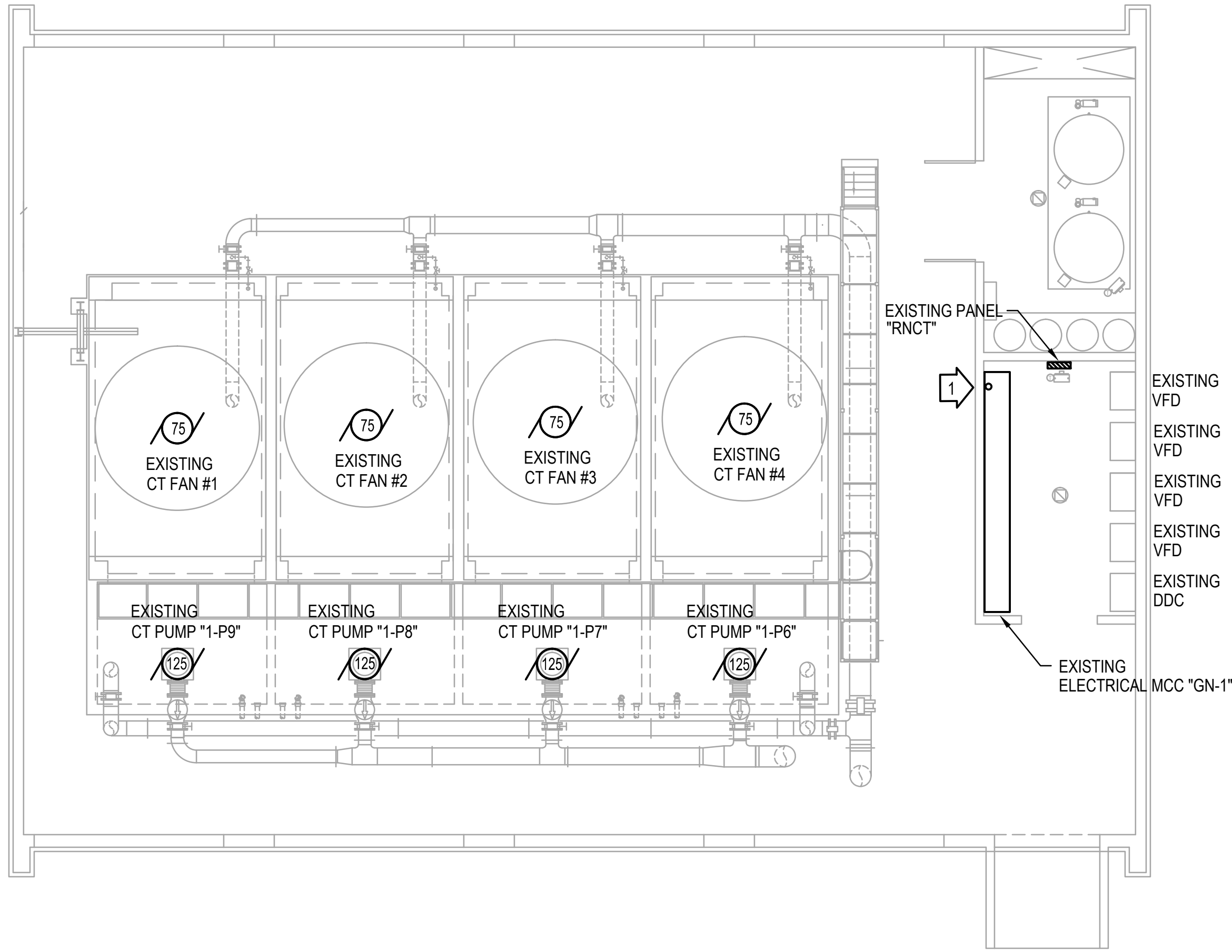
one half inch = one foot
6"

three eighths inch = one foot
6"

one quarter inch = one foot
6"

one eighth inch = one foot
6"

MA:EP103.dwg 7-07-16 10:13:10 AM
lpalmer

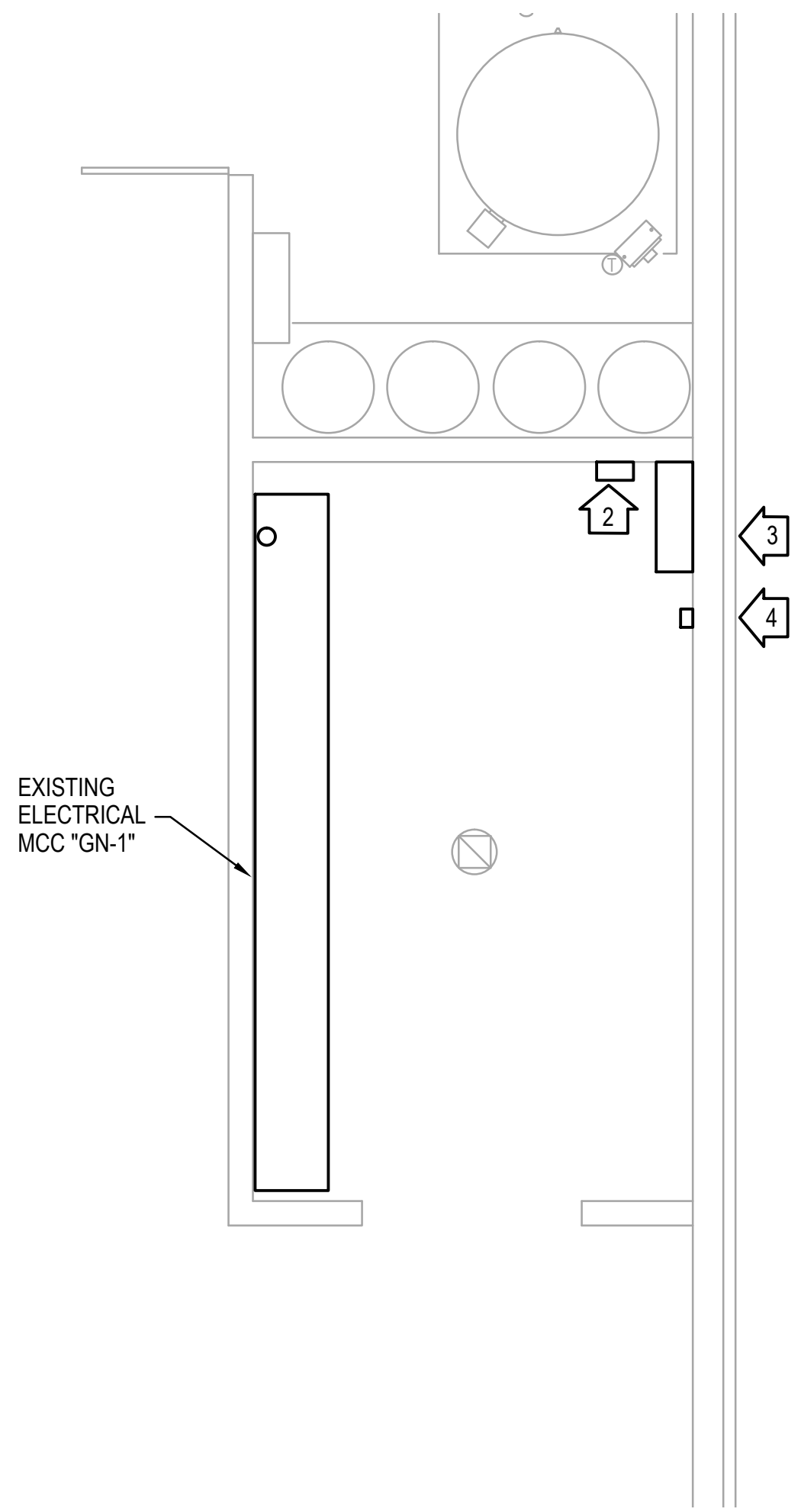


GENERAL NOTE: ALL EQUIPMENT SHOWN ON THIS PLAN IS FOR REFERENCE ONLY AND SHALL REMAIN, UOI.

1 EXISTING COOLING TOWER FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"

REFERENCE NOTES: (THIS SHEET ONLY)

- LOCATION OF EXISTING (4) 4" CONDUITS WITH (1) SPARE INSIDE MCC *GN-1*.
- COMMUNICATIONS JUNCTION BOX (12"x12"x6") - HINGED, GASKETED, LATCHED, AND LOCKABLE. MOUNT 48" AFF. PROVIDE IDENTICAL COMMUNICATIONS JUNCTION BOX IN EXISTING BOILER ROOM. (SEE SHEET ED101 FOR EXACT LOCATION OF ROOM). COORDINATE BOX LOCATION WITH OWNER. RUN A 2" CONDUIT FROM COOLING TOWER COMMUNICATIONS JUNCTION BOX TO NEW COMMUNICATIONS JUNCTION BOX IN EXISTING BOILER ROOM. RUN IN SHALLOW TRENCH AS INDICATED ON SHEET ES101. RUN A 2" CONDUIT FROM NEW COMMUNICATIONS JUNCTION BOX IN EXISTING BOILER ROOM TO SWITCHBOARD *SB-1*. PROVIDE AND INSTALL COMMUNICATIONS CABLES FOR CHP CONTROLS AND GENERATOR ANNUNCIATOR PANEL IN THESE CONDUITS AS REQUIRED.
- GENERATOR POWER JUNCTION BOX (36"x36"x12") - MTD. HORIZONTALLY AT ROOF DECK.
- PANELBOARD JUNCTION BOX (6"x6"x4") - MTD. HORIZONTALLY AT ROOF DECK.



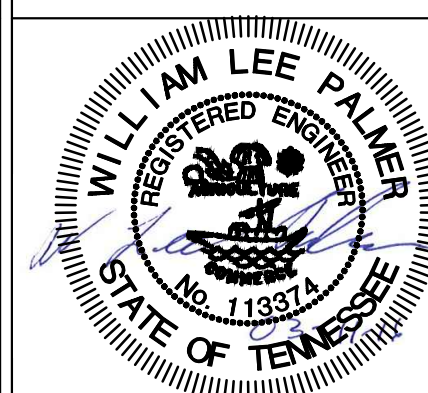
2 ENLARGED ELECTRICAL ROOM - POWER
SCALE: 1/4" = 1'-0"

Scale: 1/8" = 1'-0"

<div>Revisions</div> <div>Date</div>		<div>CONSULTANTS:</div>	<div><div><div>MICHAEL S. COLLINS</div><div>REGISTERED ENGINEER</div><div>AGRICULTURE</div><div>STATE OF TENNESSEE</div></div></div>	<div>ARCHITECT/ENGINEERS:</div> <div><div>1915</div><div>2015</div><div>ALLEN & HOSHALL</div><div>Celebrating 100 Years</div><div>Allen & Hoshall</div><div>1661 International Drive Memphis, TN 38120</div><div>901 820 0820 fax 901 683 1001</div></div>	<div>Drawing Title</div> <div>EXISTING COOLING TOWERS FLOOR PLAN - ELECTRICAL LAYOUT AND POWER</div> <div>Approved Project Director</div> <div>VAPAHCs PLANNING AND ENGINEERING</div>	<div>Drawing Title</div> <div>MEMPHIS COMBINED HEAT AND POWER PLANT DESIGN</div> <div>Location</div> <div>VAMC MEMPHIS TN</div> <div>Date</div> <div>MARCH 10, 2016</div> <div>Checked</div> <div>MSC</div> <div>Drawn</div> <div>MSC</div>	<div>Project Number</div> <div>614-16-114</div> <div>Building Number</div> <div></div> <div>Drawing Number</div> <div>EP103</div> <div>Dwg. 38 of 39</div>	<div>Office of Construction and Facilities Management</div> <div>Department of Veterans Affairs</div>
--------------------------------------	--	-------------------------	--	--	---	---	--	---



CONSULTANTS:



ARCHITECT/ENGINEERS:



Allen & Hoshall
1661 International Drive Memphis, TN 38120
901 820 0820 fax 901 683 1001

Drawing Title
PARTIAL SITE PLAN AND BUILDING
FLOOR PLAN - PLUMBING

Approved: Project Director
-
-
VAPAHCS PLANNING AND ENGINEERING

Project Title
**MEMPHIS COMBINED HEAT AND
POWER PLANT DESIGN**

Location		
VAMC	MEMPHIS	TN
Date	Checked	Drawn
MARCH 10, 2018	MSF	755

Project Number	614-18-114
Building Number	

Drawing Number
PS101

**Office of
Construction
and Facilities
Management**

